



**WOOD BUFFALO
ENVIRONMENTAL ASSOCIATION**

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Wood Buffalo Environmental Association

FEBRUARY 2026 MONTHLY CALIBRATION REPORT

CONTINUOUS MONITORING

March 31, 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS01 BERTHA GANTER - FORT MCKAY FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Bertha Ganter-Fort McKay	Station number: AMS 01
Calibration Date:	February 17, 2026	Last Cal Date: January 9, 2026
Start time (MST):	12:14	End time (MST): 15:29
Reason:	Routine	

Calibration Standards

Cal Gas Concentration:	49.21	ppm	Cal Gas Exp Date: March 10, 2031
Cal Gas Cylinder #:	CC418809		
Removed Cal Gas Conc:	49.21	ppm	Rem Gas Exp Date: NA
Removed Gas Cyl #:	NA		Diff between cyl:
Calibrator Model:	Teledyne API T700		Serial Number: 3565
Zero Air Gen Model:	Teledyne API T701		Serial Number: 146

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number: JC1501301448
Analyzer Range:	0 - 1000 ppb	

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.996039	0.997438	Backgd or Offset:	21.5	21.5
Calibration intercept:	-0.833222	0.126987	Coeff or Slope:	0.888	0.888

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.2	----
As found High point	4918	81.3	800.3	797.4	1.003
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	797.6	Previous response	796.3	*% change	0.2%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.4	----
High point	4918	81.3	800.3	798.8	1.002
Mid point	4959	40.7	400.6	398.6	1.005
Low point	4979	20.3	199.8	199.8	1.000
As left zero	5000	0.0	0.0	0.5	----
As left span	4918	81.3	800.3	799.7	1.001
Average Correction Factor:					1.002

Notes: Changed the inlet filter after as founds. No adjustments made.

Calibration Performed By: Rene Chamberland



Wood Buffalo Environmental Association

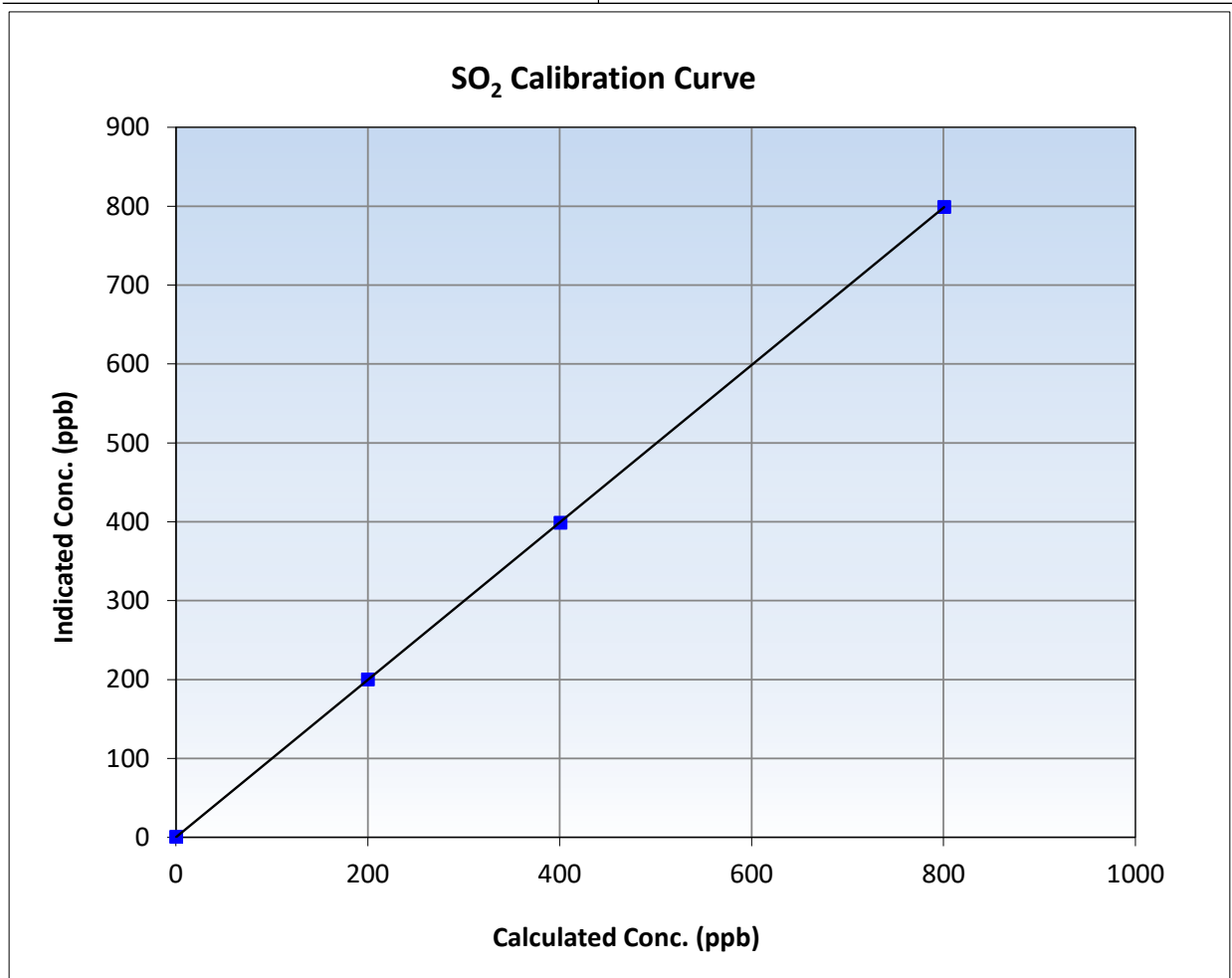
SO₂ Calibration Summary

Station Information

Calibration Date:	February 17, 2026	Previous Calibration:	January 9, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	12:14	End Time (MST):	15:29
Analyzer make:	Thermo 43i	Analyzer serial #:	JC1501301448

Calibration Data

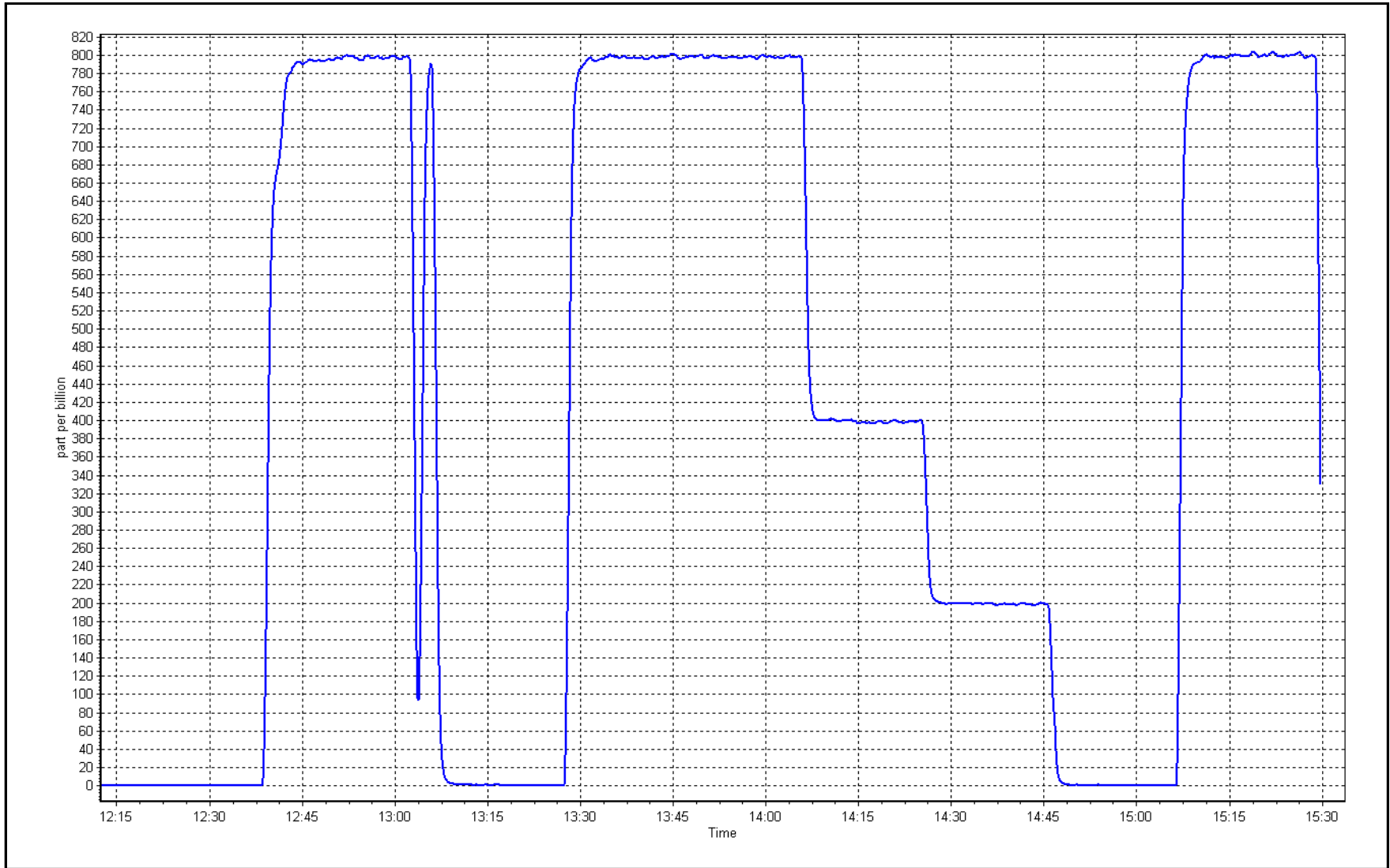
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.4	----	Correlation Coefficient	0.999995	≥0.995
800.3	798.8	1.0018	Slope	0.997438	0.90 - 1.10
400.6	398.6	1.0050	Intercept	0.126987	+/-30
199.8	199.8	1.0001			



SO2 Calibration Plot

Date: February 17, 2026

Location: Bertha Ganter-Fort McKay





Wood Buffalo Environmental Association

H₂S Calibration Report

Station Information

Station Name:	Bertha Ganter-Fort McKay	Station number:	AMS 01
Calibration Date:	February 12, 2026	Last Cal Date:	January 7, 2026
Start time (MST):	11:52	End time (MST):	16:07
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.84	ppm	Cal Gas Exp Date:	September 5, 2027
Cal Gas Cylinder #:	CC738239			
Removed Cal Gas Conc:	4.84	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700		Serial Number:	3565
ZAG Make/Model:	Teledyne API T701		Serial Number:	146

Analyzer Information

Analyzer make:	Thermo 43iQ-TL	Analyzer serial #:	1200326167
Converter make:	CD Nova	Converter serial #:	2022-221
Analyzer Range	0 - 100 ppb	Converter Temp:	315 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.001818	1.000386	Backgd or Offset:	2.06	2.06
Calibration intercept:	0.041877	-0.058000	Coeff or Slope:	0.987	0.999

H₂S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4917	82.6	80.0	78.9	1.013
As found Mid point	4959	41.3	40.0	39.6	1.009
As found Low point	4979	20.7	20.0	19.8	1.012
New cylinder response					
Baseline Corr As found:	78.9	Prev response:	80.15	*% change:	-1.6%
Baseline Corr 2nd AF pt:	39.6	AF Slope:	0.986807	AF Intercept:	0.042171
Baseline Corr 3rd AF pt:	19.8	AF Correlation:	0.999995	<i>* = > +/-5% change initiates investigation</i>	

H₂S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.1	----
High point	4917	82.6	80.0	80.0	1.000
Mid point	4959	41.3	40.0	39.9	1.002
Low point	4979	20.7	20.0	19.8	1.012
As left zero	5000	0.0	0.0	0.2	----
As left span	4917	82.6	80.0	79.4	1.007
SO ₂ Scrubber Check	4919	81.3	813.0	0.0	----
Date of last scrubber change:	January 25, 2024			Ave Corr Factor	1.005
Date of last converter efficiency test:	November 7, 2024			107.9% efficiency	

Notes: Inlet filter change completed after as founds. Span adjustment made. Scrubber check passed.

Calibration Performed By: Rene Chamberland



Wood Buffalo Environmental Association

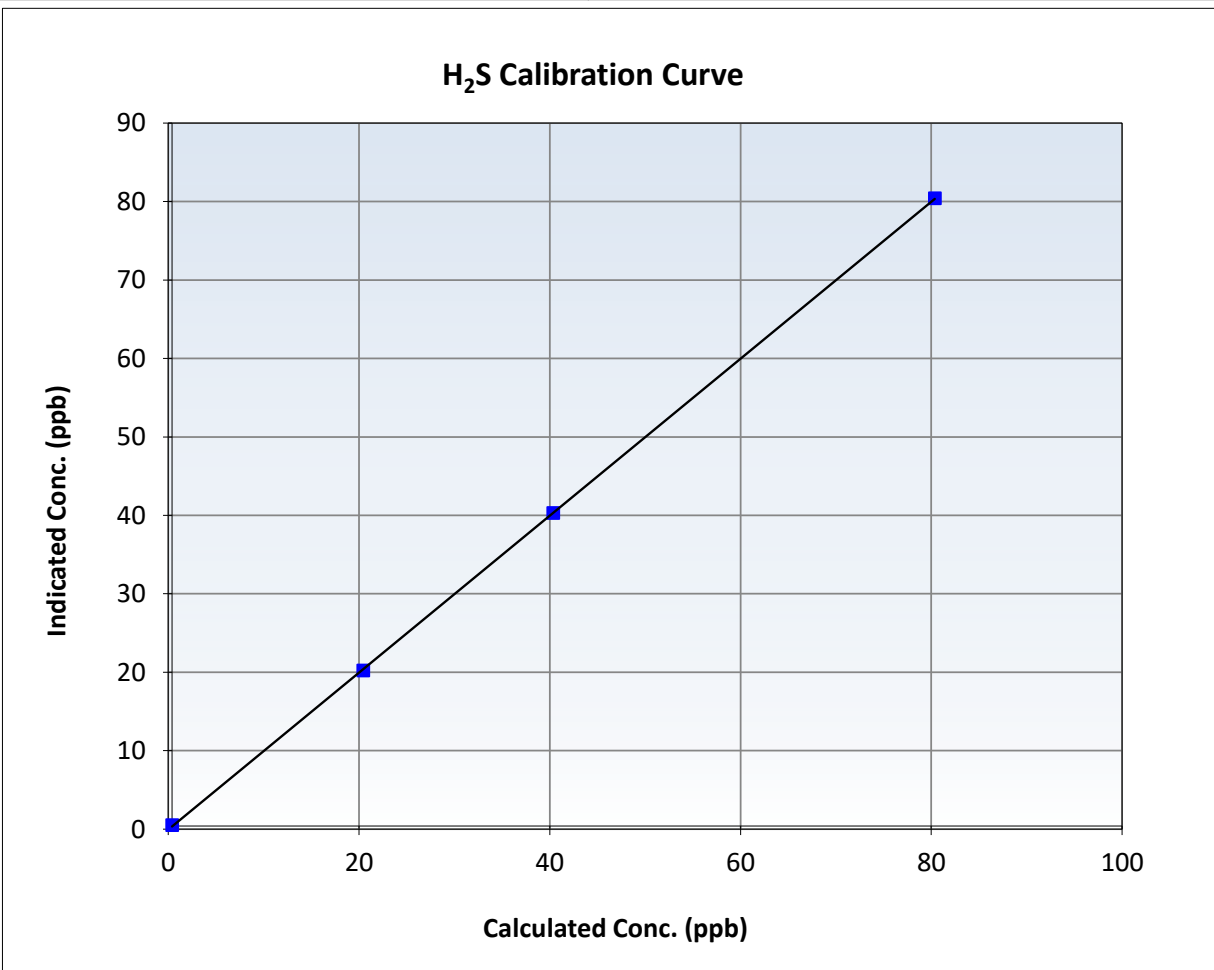
H₂S Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 7, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	11:52	End Time (MST):	16:07
Analyzer make:	Thermo 43iQ-TL	Analyzer serial #:	1200326167

Calibration Data

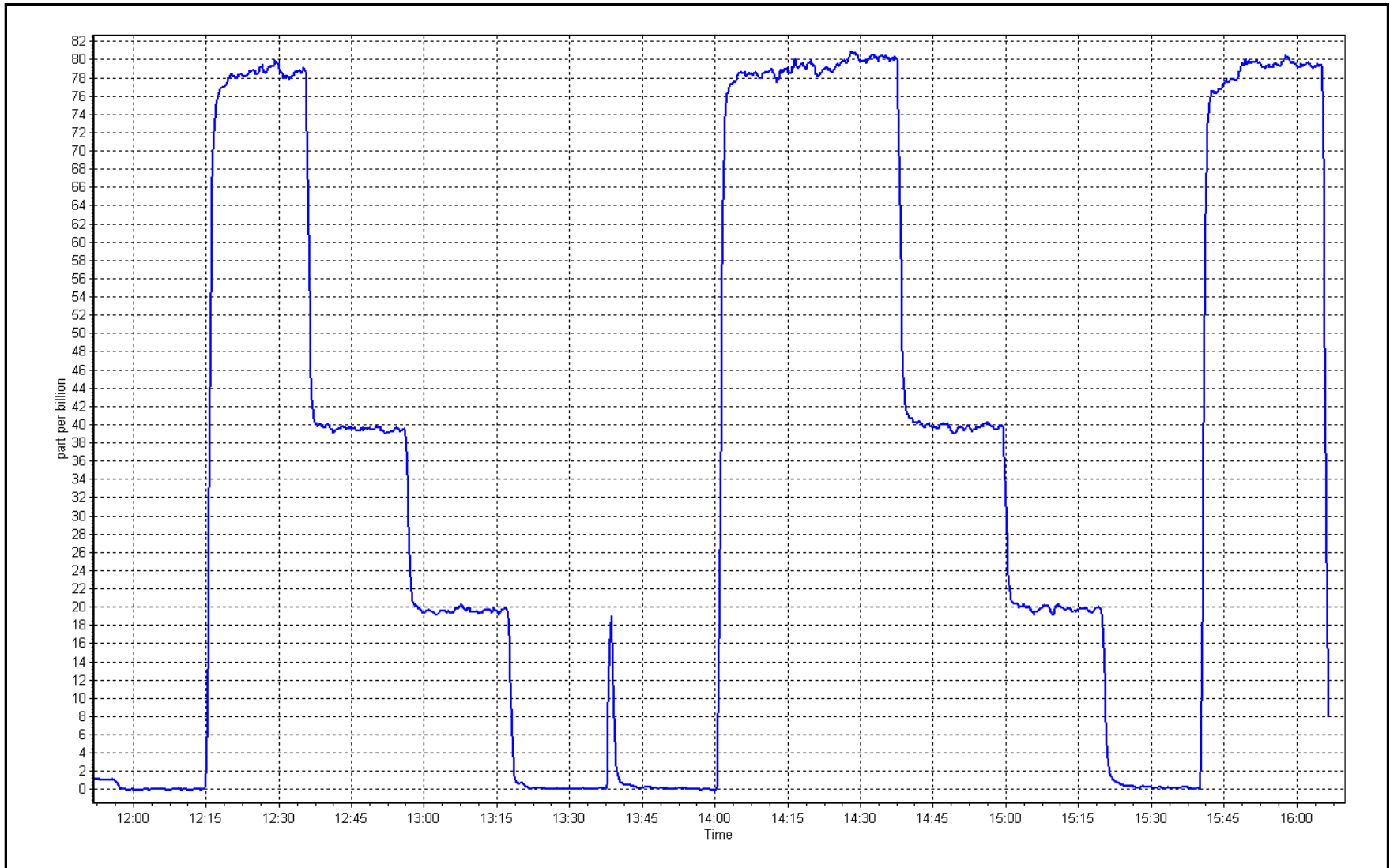
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.1	----	Correlation Coefficient	0.999981	≥ 0.995
80.0	80.0	0.9995	Slope	1.000386	$0.90 - 1.10$
40.0	39.9	1.0019	Intercept	-0.058000	± 3
20.0	19.8	1.0121			



H₂S Calibration Plot

Date: February 12, 2026

Location: Bertha Ganter-Fort McKay





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name:	Bertha Ganter-Fort McKay	Station number:	AMS 01
Calibration Date:	February 12, 2026	Last Cal Date:	January 7, 2026
Start time (MST):	11:52	End time (MST):	16:07
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.84 ppm	Cal Gas Exp Date:	September 5, 2027
Cal Gas Cylinder #:	CC738239		
Removed Cal Gas Conc:	4.84 ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA	Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700	Serial Number:	3565
ZAG Make/Model:	Teledyne API T701	Serial Number:	146

Analyzer Information

Analyzer make:	Thermo 43iQ-TLE	Analyzer serial #:	12113311966
Converter make:	CD Nova	Converter serial #:	580
Analyzer Range	0 - 100 ppb	Converter Temp:	850 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.998243	0.998386	Backgd or Offset:	2.17	2.11
Calibration intercept:	0.041980	-0.038018	Coeff or Slope:	1.139	1.112

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4917	82.6	80.0	81.6	0.981
As found Mid point	4959	41.3	40.0	41.1	0.975
As found Low point	4979	20.7	20.0	20.5	0.982
New cylinder response					
Baseline Corr As found:	81.5	Prev response:	79.86	*% change:	2.0%
Baseline Corr 2nd AF pt:	41.0	AF Slope:	1.019686	AF Intercept:	0.141609
Baseline Corr 3rd AF pt:	20.4	AF Correlation:	0.999986	* = > +/-5% change initiates investigation	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4917	82.6	80.0	79.8	1.002
Mid point	4959	41.3	40.0	39.9	1.002
Low point	4979	20.7	20.0	19.9	1.007
As left zero	5000	0.0	0.0	0.0	----
As left span	4917	82.6	80.0	79.3	1.008
SO2 Scrubber Check	4919	81.3	813.0	0.0	----
Date of last scrubber change:		December 17, 2021		Ave Corr Factor	1.004
Date of last converter efficiency test:					

Notes: Inlet filter change completed after as founds. Span adjustment made. Scrubber check passed.

Calibration Performed By: Rene Chamberland



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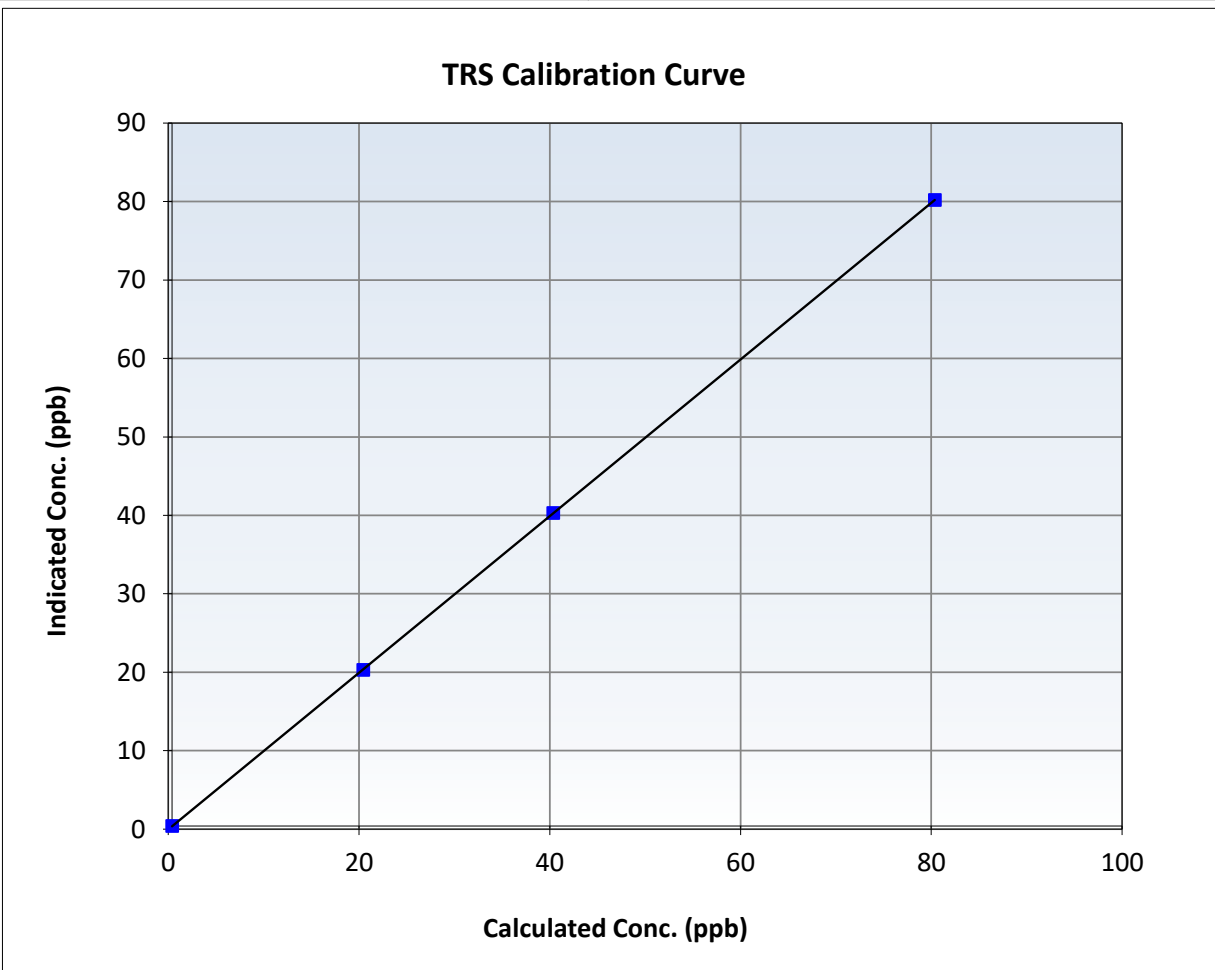
TRS Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 7, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	11:52	End Time (MST):	16:07
Analyzer make:	Thermo 43iQ-TLE	Analyzer serial #:	12113311966

Calibration Data

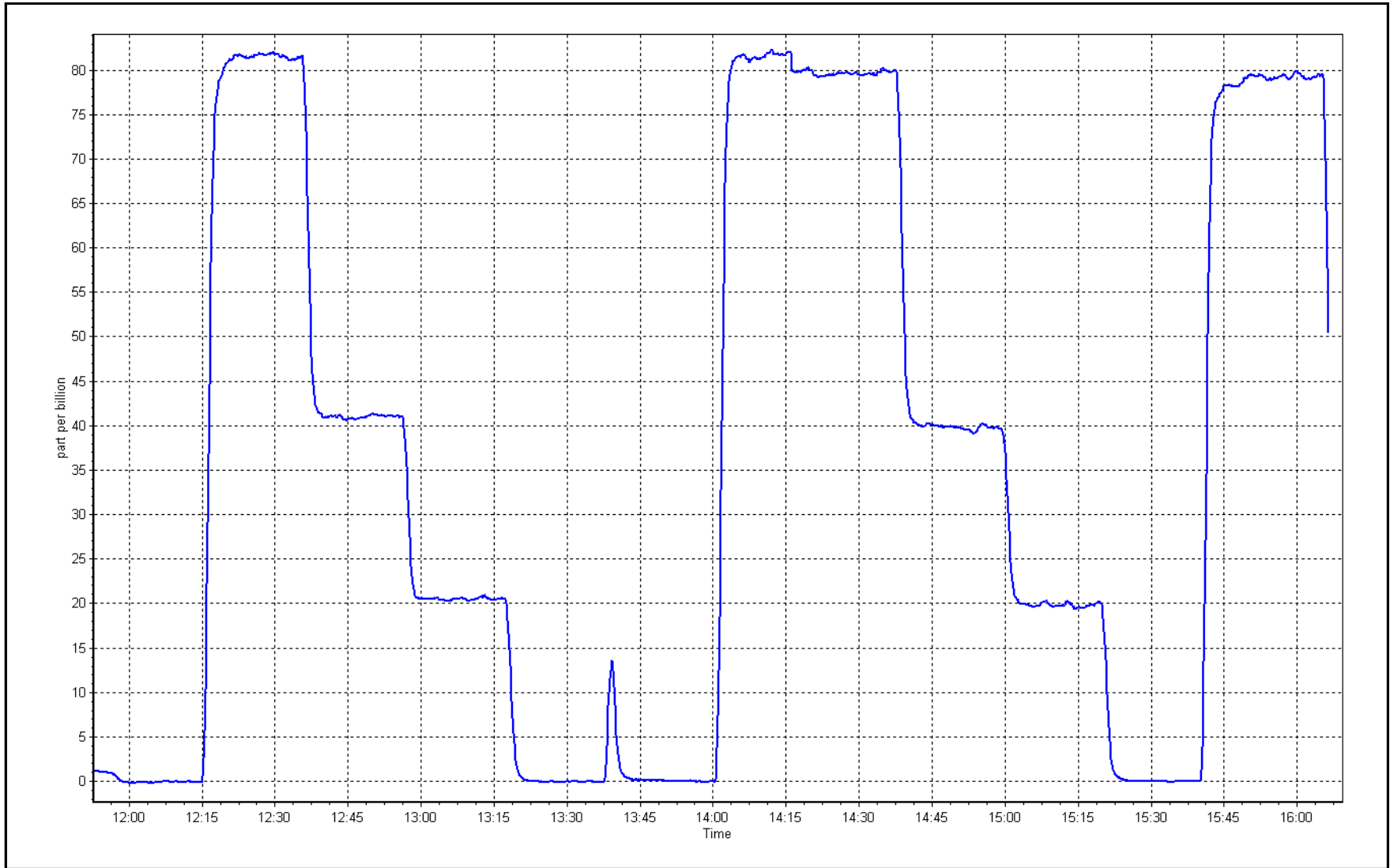
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999998	≥ 0.995
80.0	79.8	1.0020	Slope	0.998386	$0.90 - 1.10$
40.0	39.9	1.0019	Intercept	-0.038018	± 3
20.0	19.9	1.0070			



TRS Calibration Plot

Date: February 12, 2026

Location: Bertha Ganter-Fort McKay





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Bertha Ganter-Fort McKay	Station number:	AMS 01
Calibration Date:	February 17, 2026	Last Cal Date:	January 9, 2026
Start time (MST):	12:14	End time (MST):	15:29
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC418809	Cal Gas Expiry Date:	March 10, 2031
CH ₄ Cal Gas Conc.	497.2 ppm	CH ₄ Equiv Conc.	1061.8 ppm
C ₃ H ₈ Cal Gas Conc.	205.3 ppm		
Removed Gas Cert:	NA	Removed Gas Expiry:	NA
Removed CH ₄ Conc.	497.2 ppm	CH ₄ Equiv Conc.	1061.8 ppm
Removed C ₃ H ₈ Conc.	205.3 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	3565
Zero Air Gen model:	Teledyne API T701	Serial Number:	146

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1193585648
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH ₄ SP Ratio:	2.51E-04	2.48E-04	4.87E-05	4.81E-05
CH ₄ Retention time:	15.0	15.0	188312	191019
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	---
As found High point	4918	81.3	17.27	17.50	0.987
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	17.50	Prev response	17.25	*% change	1.4%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	---
High point	4918	81.3	17.27	17.24	1.001
Mid point	4959	40.7	8.64	8.60	1.005
Low point	4979	20.3	4.31	4.31	1.001
As left zero	5000	0.0	0.00	0.00	---
As left span	4918	81.3	17.27	17.30	0.998
Average Correction Factor					1.002

Notes: Changed the inlet filter after as founds. Adjusted the span.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	81.3	9.18	9.32	0.985
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	9.32	Prev response	9.16	*% change	1.8%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	81.3	9.18	9.15	1.003
Mid point	4959	40.7	4.60	4.57	1.005
Low point	4979	20.3	2.29	2.29	1.000
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	81.3	9.18	9.21	0.997
Average Correction Factor					1.003

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	81.3	8.09	8.17	0.989
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.17	Prev response	8.10	*% change	0.9%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	81.3	8.09	8.09	0.999
Mid point	4959	40.7	4.05	4.03	1.004
Low point	4979	20.3	2.02	2.02	1.002
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	81.3	8.09	8.08	1.000
Average Correction Factor					1.002

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.998351	0.998456
THC Cal Offset:	0.016544	-0.005250
CH ₄ Cal Slope:	1.001184	1.000872
CH ₄ Cal Offset:	0.001067	-0.006329
NMHC Cal Slope:	0.995607	0.996565
NMHC Cal Offset:	0.015478	0.000879

Calibration Performed By: Rene Chamberland



Wood Buffalo Environmental Association

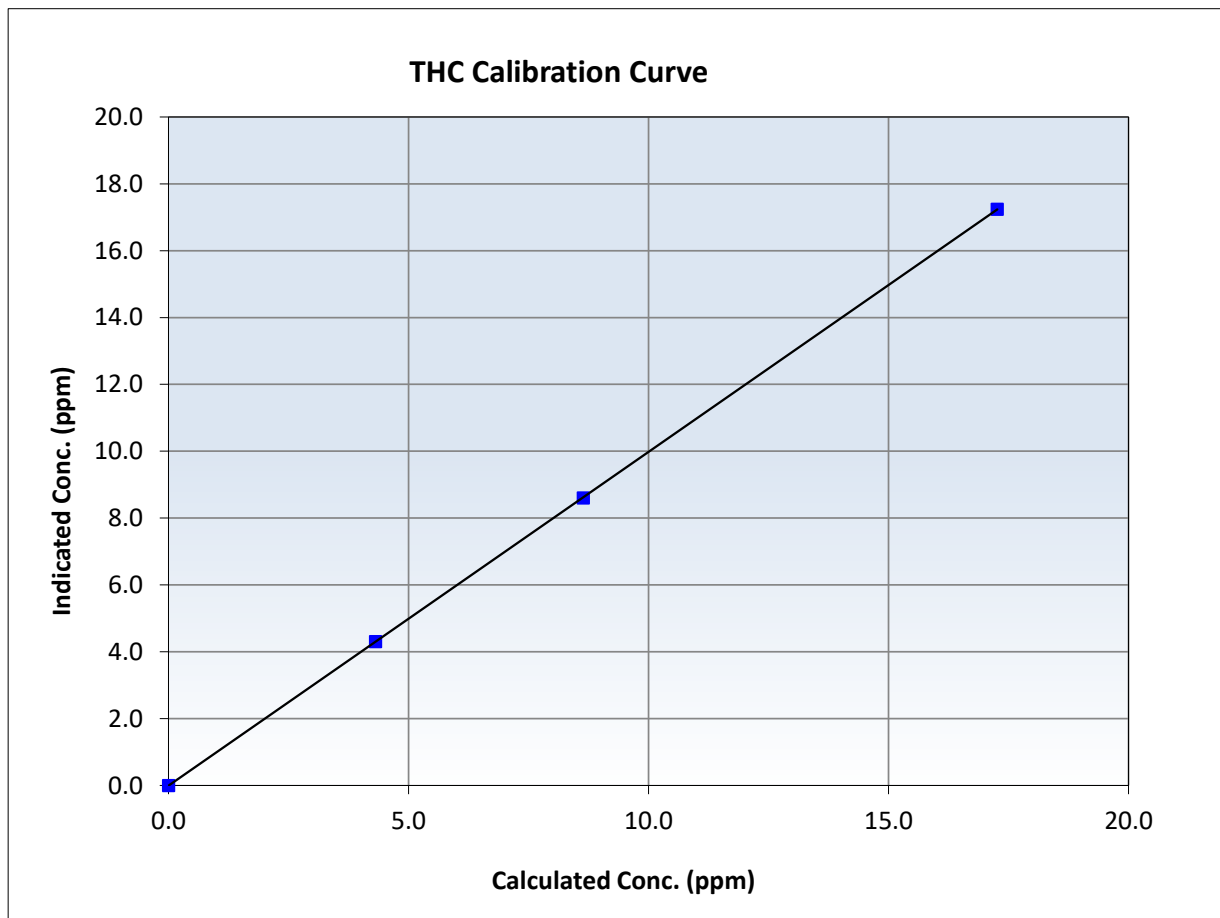
THC Calibration Summary

Station Information

Calibration Date:	February 17, 2026	Previous Calibration:	January 9, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	12:14	End Time (MST):	15:29
Analyzer make:	Thermo 55i	Analyzer serial #:	1193585648

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999996	<i>≥0.995</i>
17.27	17.24	1.0013	Slope	0.998456	<i>0.90 - 1.10</i>
8.64	8.60	1.0047	Intercept	-0.005250	<i>+/-0.5</i>
4.31	4.31	1.0010			





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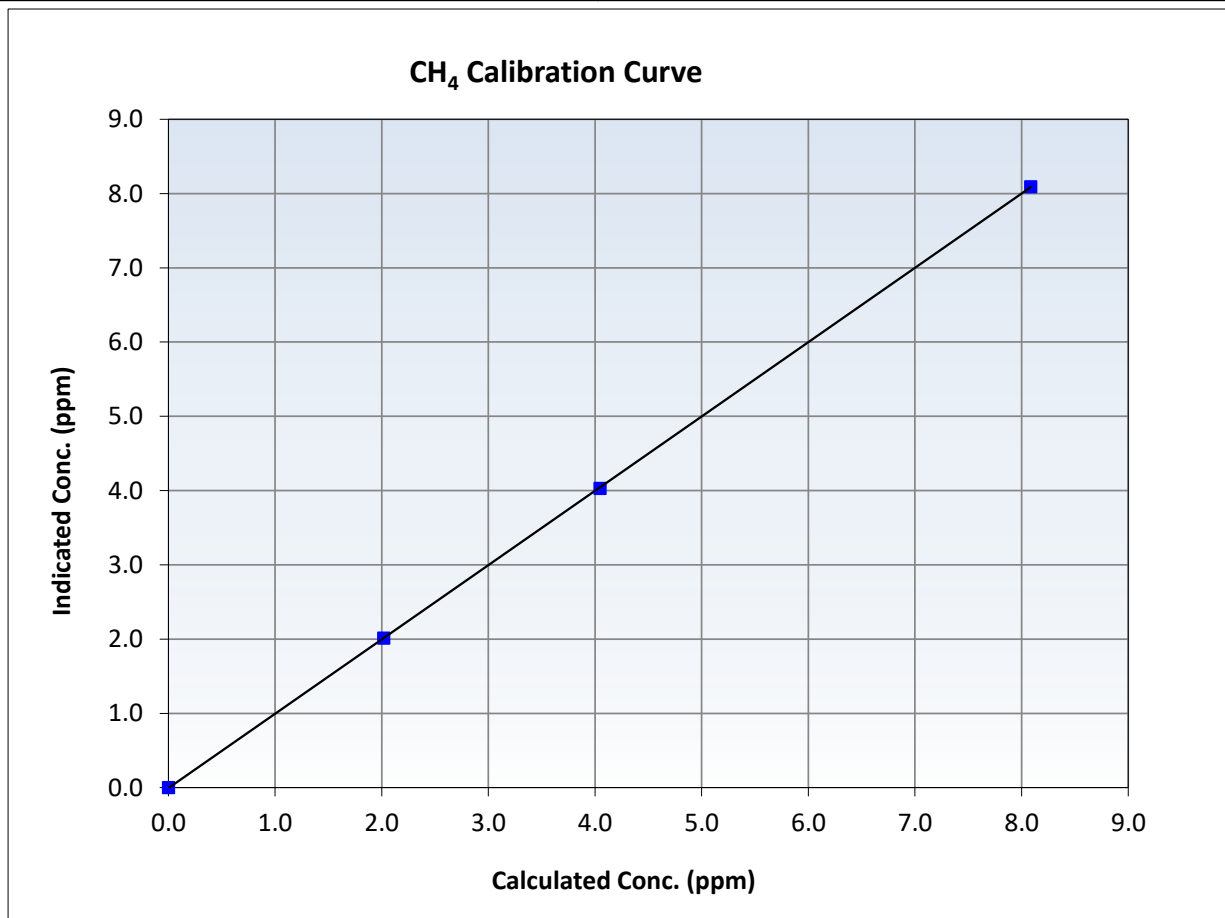
CH₄ Calibration Summary

Station Information

Calibration Date:	February 17, 2026	Previous Calibration:	January 9, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	12:14	End Time (MST):	15:29
Analyzer make:	Thermo 55i	Analyzer serial #:	1193585648

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.00	0.00	----	Correlation Coefficient	0.999992	≥0.995
8.09	8.09	0.9991	Slope	1.000872	0.90 - 1.10
4.05	4.03	1.0041	Intercept	-0.006329	±0.5
2.02	2.02	1.0019			





Wood Buffalo Environmental Association

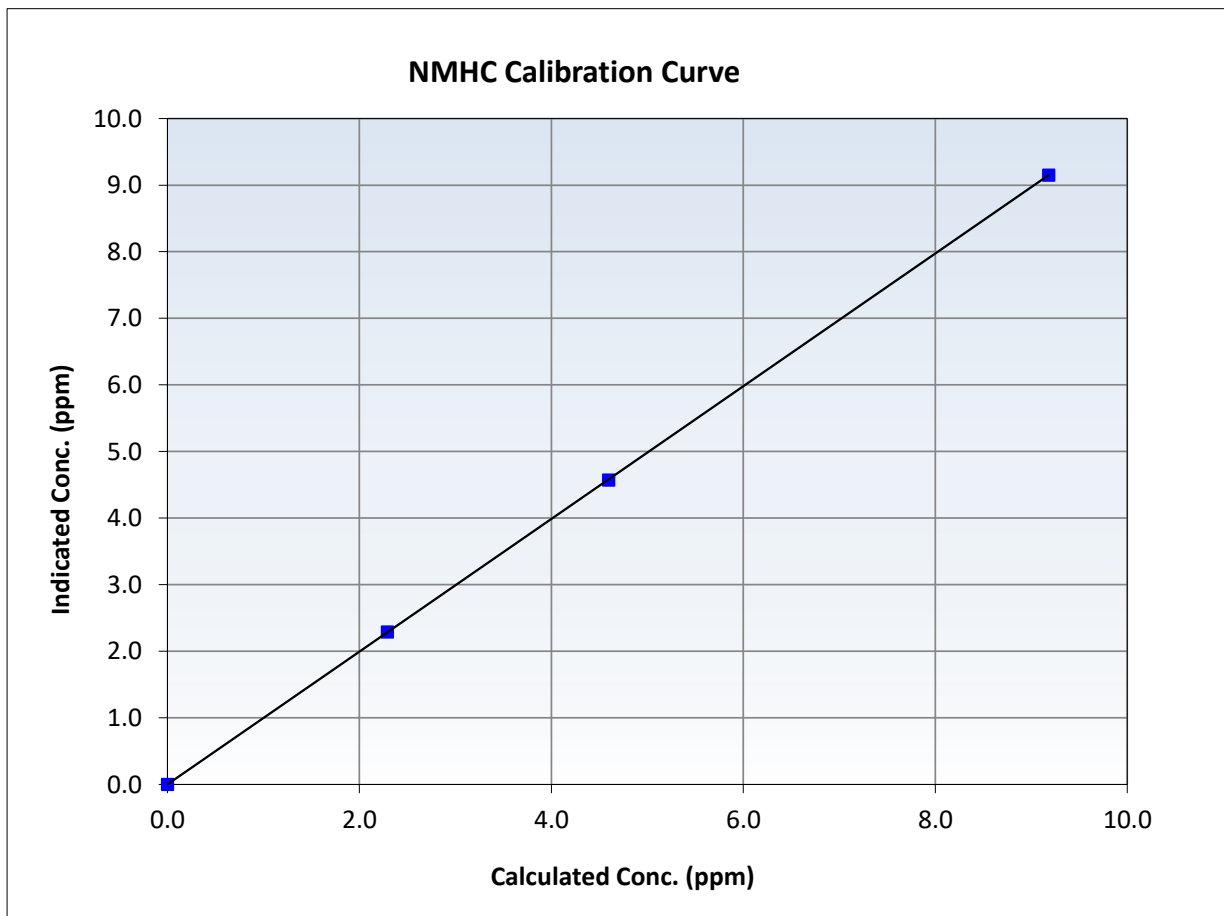
NMHC Calibration Summary

Station Information

Calibration Date:	February 17, 2026	Previous Calibration:	January 9, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	12:14	End Time (MST):	15:29
Analyzer make:	Thermo 55i	Analyzer serial #:	1193585648

Calibration Data

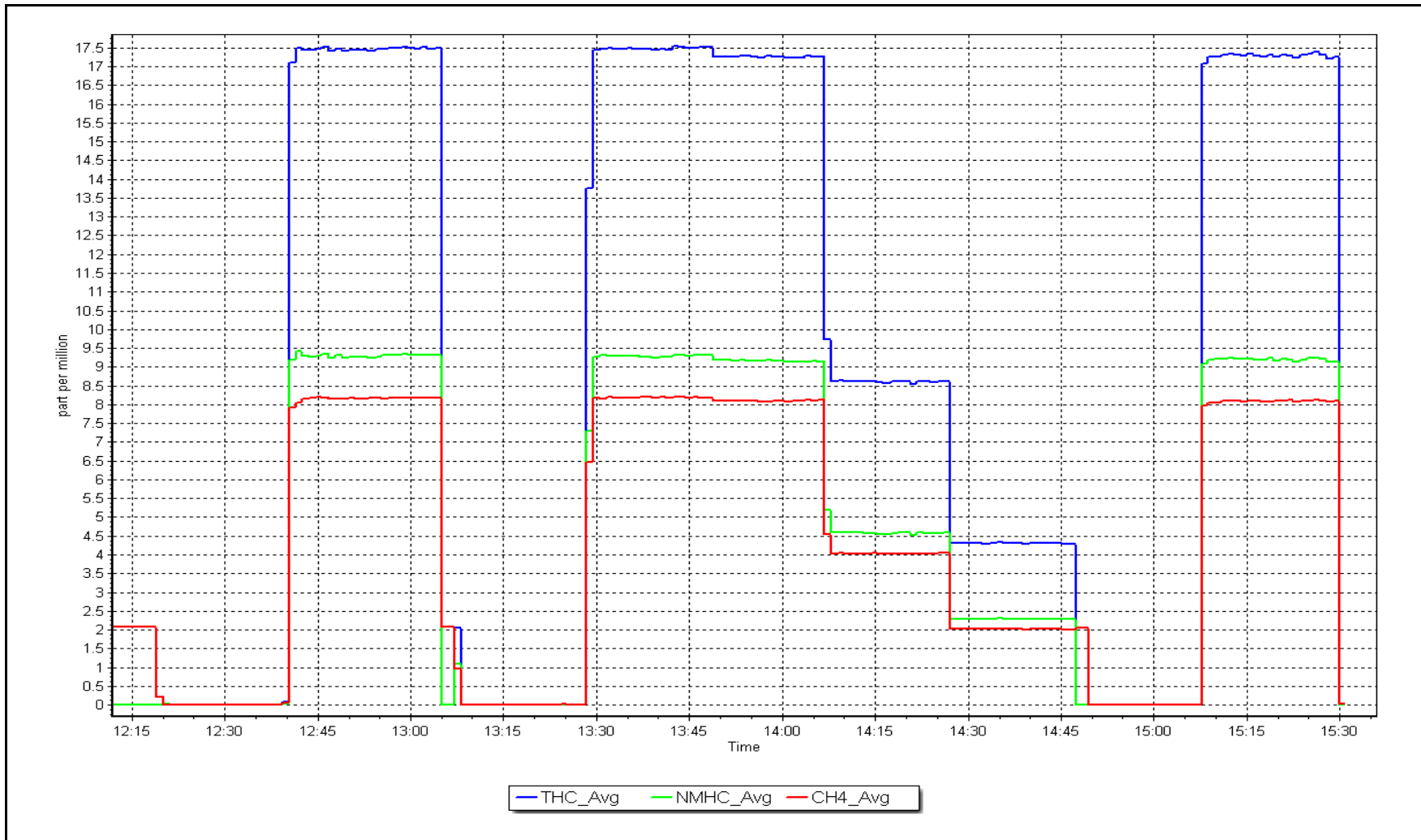
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999998	<i>≥0.995</i>
9.18	9.15	1.0031	Slope	0.996565	<i>0.90 - 1.10</i>
4.60	4.57	1.0050	Intercept	0.000879	<i>+/-0.5</i>
2.29	2.29	1.0002			



NMHC Calibration Plot

Date: February 17, 2026

Location: Bertha Ganter-Fort McKay





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Bertha Ganter-Fort McKay	Station number:	AMS 01
Calibration Date:	February 20, 2026	Last Cal Date:	February 17, 2026
Start time (MST):	12:45	End time (MST):	14:21
Reason:	Cylinder Change		

Calibration Standards

Gas Cert Reference:	CC418809	Cal Gas Expiry Date:	March 10, 2031
CH4 Cal Gas Conc.	497.2 ppm	CH4 Equiv Conc.	1061.8 ppm
C3H8 Cal Gas Conc.	205.3 ppm		
Removed Gas Cert:	NA	Removed Gas Expiry:	NA
Removed CH4 Conc.	497.2 ppm	CH4 Equiv Conc.	1061.8 ppm
Removed C3H8 Conc.	205.3 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	3565
Zero Air Gen model:	Teledyne API T701	Serial Number:	146

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1193585648
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.48E-04	2.48E-04	NMHC SP Ratio:	4.81E-05	4.81E-05
CH4 Retention time:	15.0	15.0	NMHC Peak Area:	191019	191019
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	81.3	17.27	17.28	0.999
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	17.28	Prev response	17.23	*% change	0.3%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	81.3	17.27	17.23	1.002
Average Correction Factor					

Notes: Changed the H2 cylinder after as founds.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	81.3	9.18	9.21	0.997
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	9.21	Prev response	9.15	*% change	0.6%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	81.3	9.18	9.20	0.998
Average Correction Factor					

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	81.3	8.09	8.07	1.002
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.07	Prev response	8.09	*% change	-0.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	81.3	8.09	8.03	1.007
Average Correction Factor					

Calibration Statistics

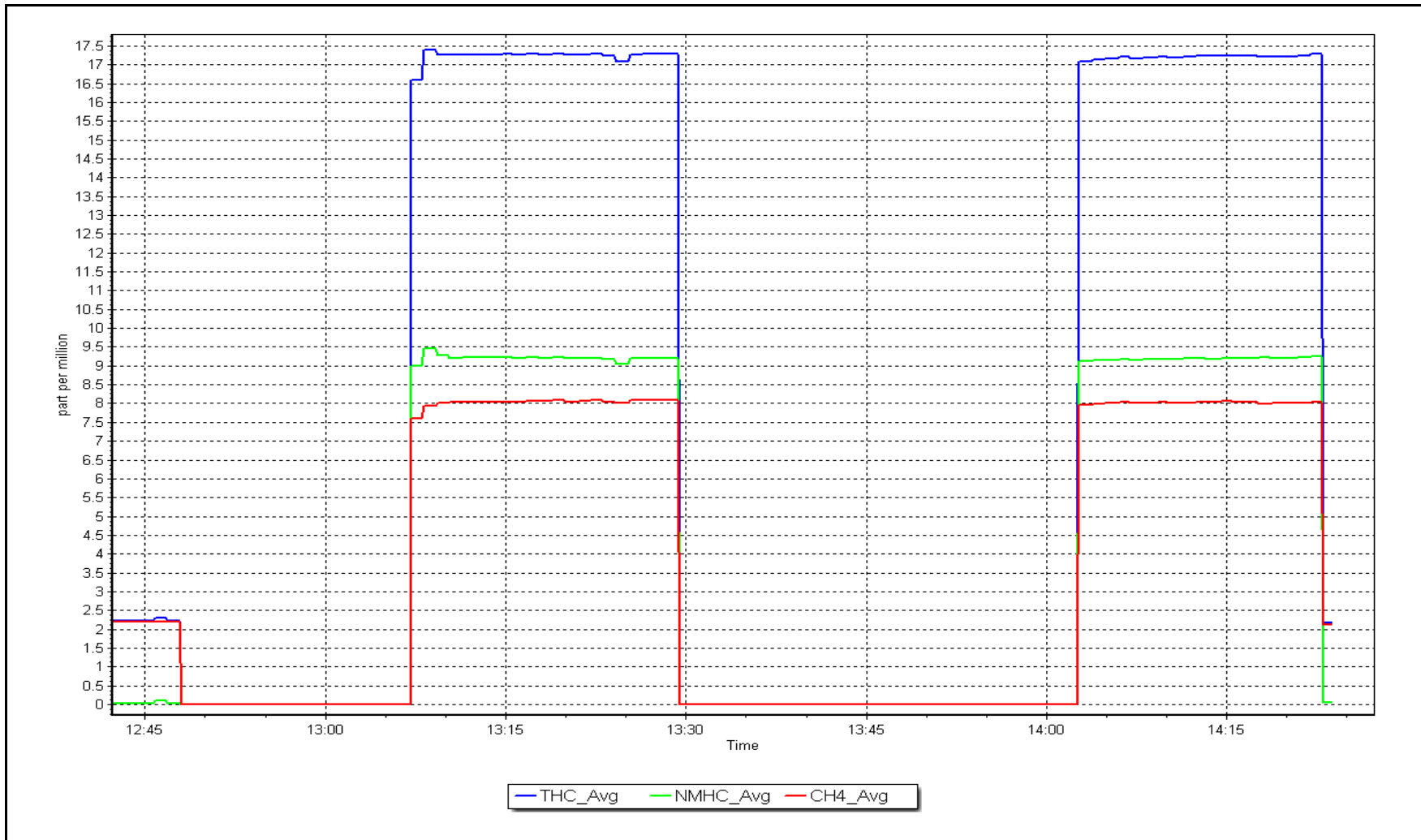
	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.998456	
THC Cal Offset:	-0.005250	
CH ₄ Cal Slope:	1.000872	
CH ₄ Cal Offset:	-0.006329	
NMHC Cal Slope:	0.996565	
NMHC Cal Offset:	0.000879	

Calibration Performed By: Rene Chamberland

NMHC Calibration Plot

Date: February 20, 2026

Location: Bertha Ganter-Fort McKay





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Bertha Ganter-Fort McKay
 Station number: AMS 01
 Calibration Date: February 13, 2026
 Last Cal Date: January 8, 2026
 Start time (MST): 11:33
 End time (MST): 16:00
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: CC335700
 NOX Cal Gas Conc: 59.40 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 59.40 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701
 Cal Gas Expiry Date: September 1, 2032
 NO Cal Gas Conc: 59.20 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 59.20 ppm
 NO gas Diff:
 Serial Number: 3565
 Serial Number: 146

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	----	----
AF High point	4932	67.6	803.1	800.4	2.7	808.6	798.5	10.0	0.9931	1.0022
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 799.8 ppb		NO = 796.0 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = 1.1%	
Baseline Corr 1st pt	NO _x = 808.7 ppb		NO = 798.6 ppb			<u>As Found Statistics</u>		*Percent Change	NO = 0.3%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1336160088

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.995870	1.001406
NO _x Cal Offset:	0.000000	-0.520000
NO Cal Slope:	0.996950	0.999649
NO Cal Offset:	-1.900000	-1.920000
NO ₂ Cal Slope:	1.002294	1.007419
NO ₂ Cal Offset:	0.700760	0.197571

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.748	0.748	NO bkgnd or offset:	2.2	2.2
NOX coeff or slope:	1.001	1.001	NOX bkgnd or offset:	2.3	2.3
NO2 coeff or slope:	0.999	0.999	Reaction cell Press:	159.7	160.3

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.3	0.0	0.3	----	----
High point	4932	67.6	803.1	800.4	2.7	804.3	799.3	4.9	0.9985	1.0014
Mid point	4966	33.8	401.5	400.2	1.4	400.6	396.7	3.8	1.0024	1.0088
Low point	4983	16.9	200.8	200.1	0.7	200.1	196.5	3.7	1.0034	1.0183
As left zero	5000	0.0	0.0	0.0	0.0	0.5	0.1	0.4	----	----
As left span	4932	67.6	803.1	387.0	416.1	801.5	387.0	414.6	1.0020	1.0000
Average Correction Factor									1.0014	1.0095

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.3	----	----
High GPT point	794.5	384.9	412.3	415.7	0.9918	100.8%
Mid GPT point	794.5	582.9	214.3	215.8	0.9931	100.7%
Low GPT point	794.5	696.3	100.9	101.9	0.9902	101.0%
Average Correction Factor					0.9917	100.8%

Notes: Changed the inlet filter after as founds. No adjustments made.

Calibration Performed By: Rene Chamberland



Wood Buffalo Environmental Association

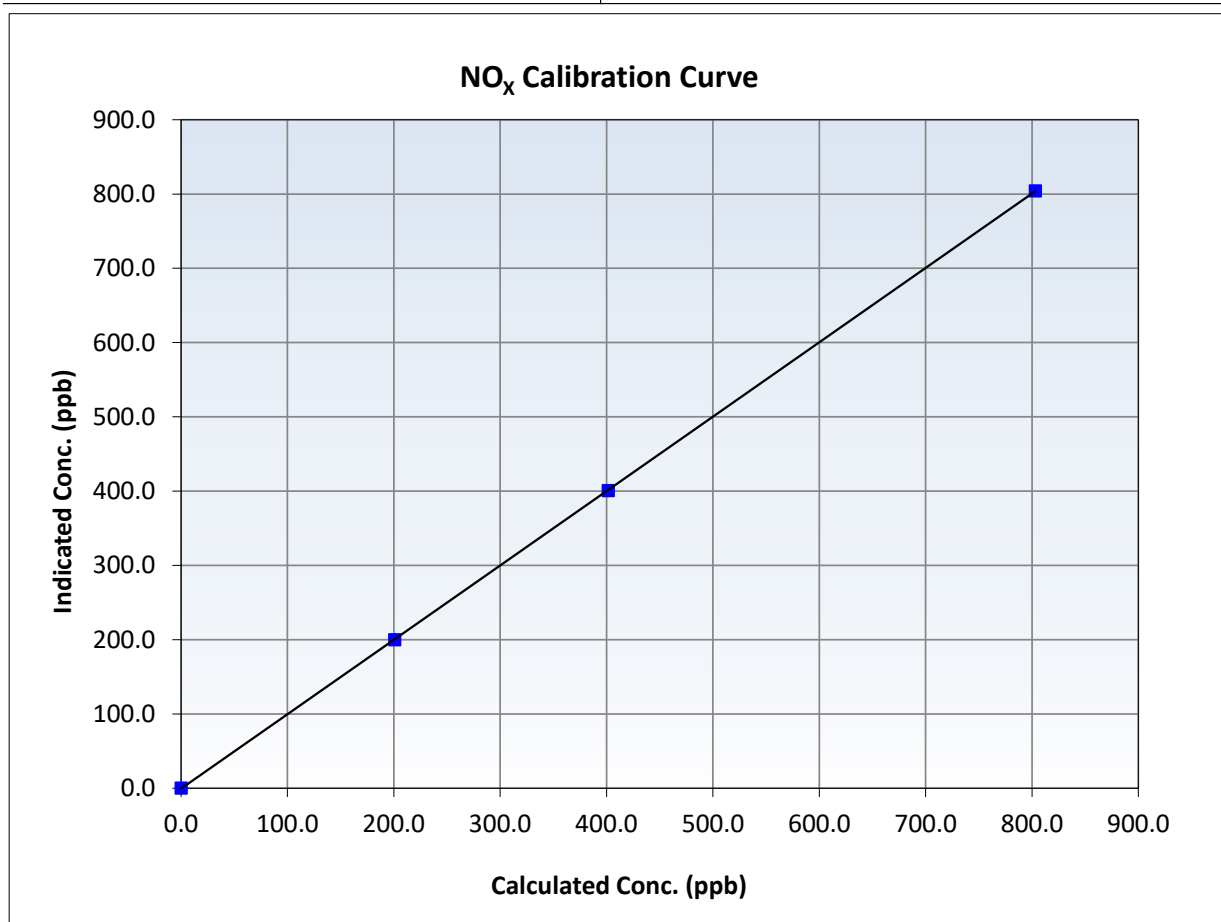
NO_x Calibration Summary

Station Information

Calibration Date:	February 13, 2026	Previous Calibration:	January 8, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	11:33	End Time (MST):	16:00
Analyzer make:	Thermo 42i	Analyzer serial #:	1336160088

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.3	----	Correlation Coefficient	0.999994	<i>≥0.995</i>
803.1	804.3	0.9985	Slope	1.001406	<i>0.90 - 1.10</i>
401.5	400.6	1.0024	Intercept	-0.520000	<i>+/-20</i>
200.8	200.1	1.0034			





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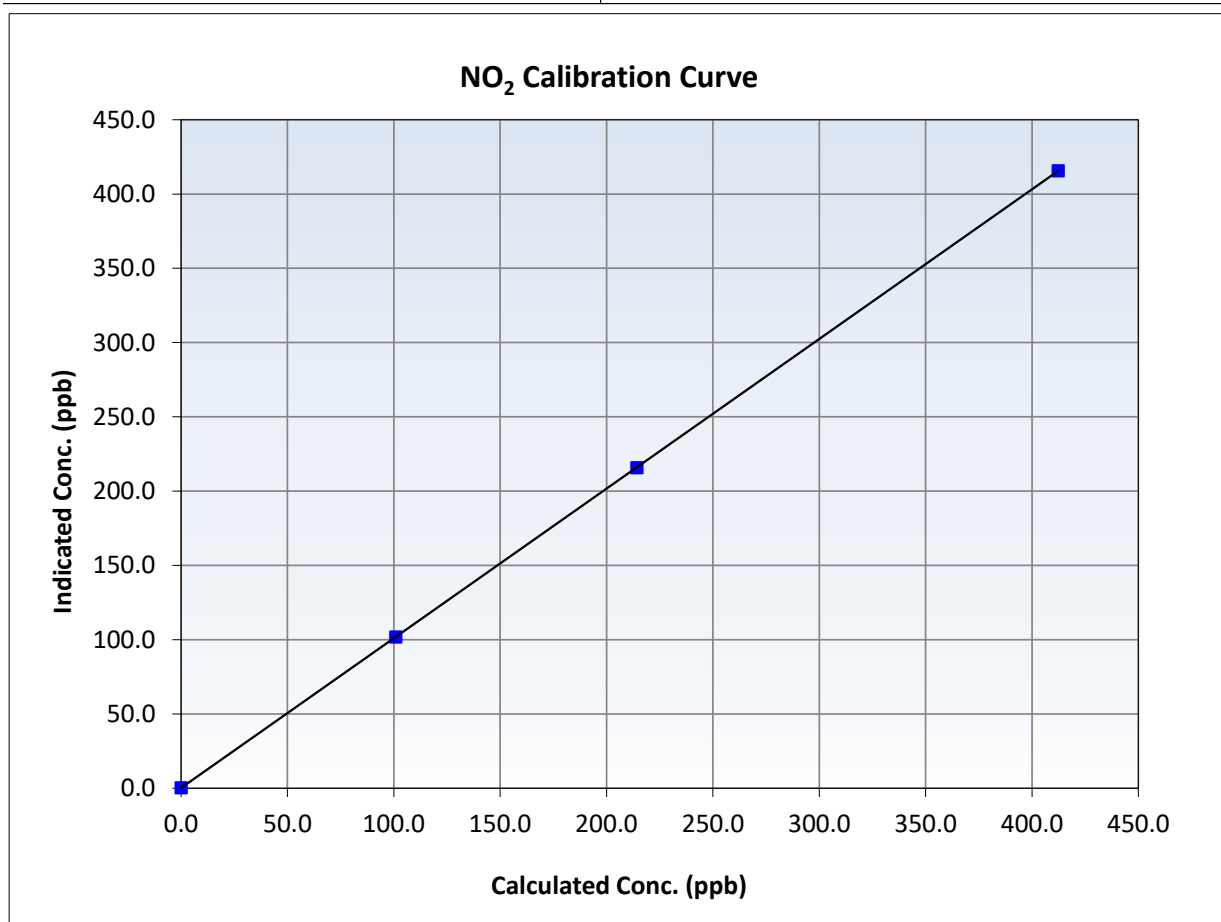
NO₂ Calibration Summary

Station Information

Calibration Date:	February 13, 2026	Previous Calibration:	January 8, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	11:33	End Time (MST):	16:00
Analyzer make:	Thermo 42i	Analyzer serial #:	1336160088

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.3	----	Correlation Coefficient	0.999999	≥0.995
412.3	415.7	0.9918	Slope	1.007419	0.90 - 1.10
214.3	215.8	0.9931	Intercept	0.197571	+/-20
100.9	101.9	0.9902			





Wood Buffalo Environmental Association

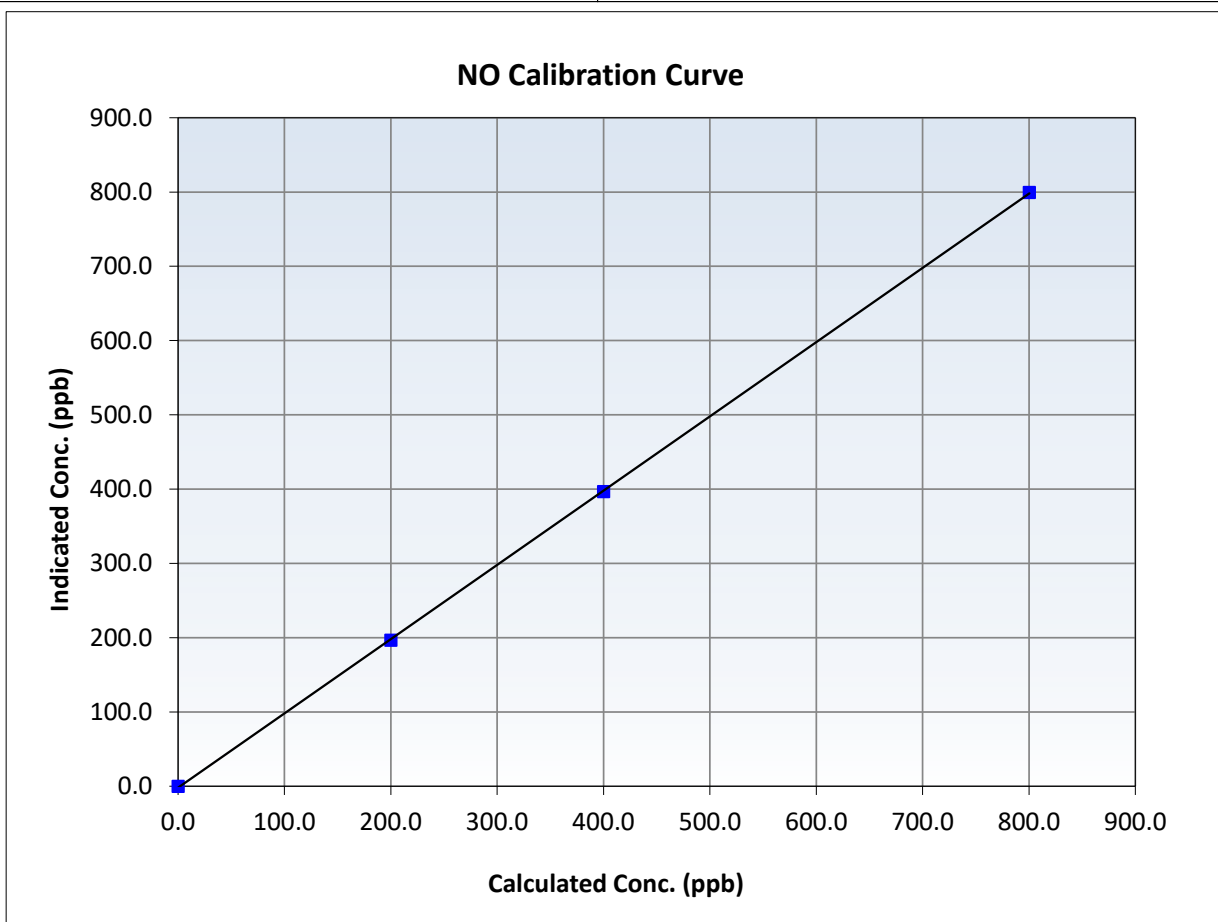
NO Calibration Summary

Station Information

Calibration Date:	February 13, 2026	Previous Calibration:	January 8, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	11:33	End Time (MST):	16:00
Analyzer make:	Thermo 42i	Analyzer serial #:	1336160088

Calibration Data

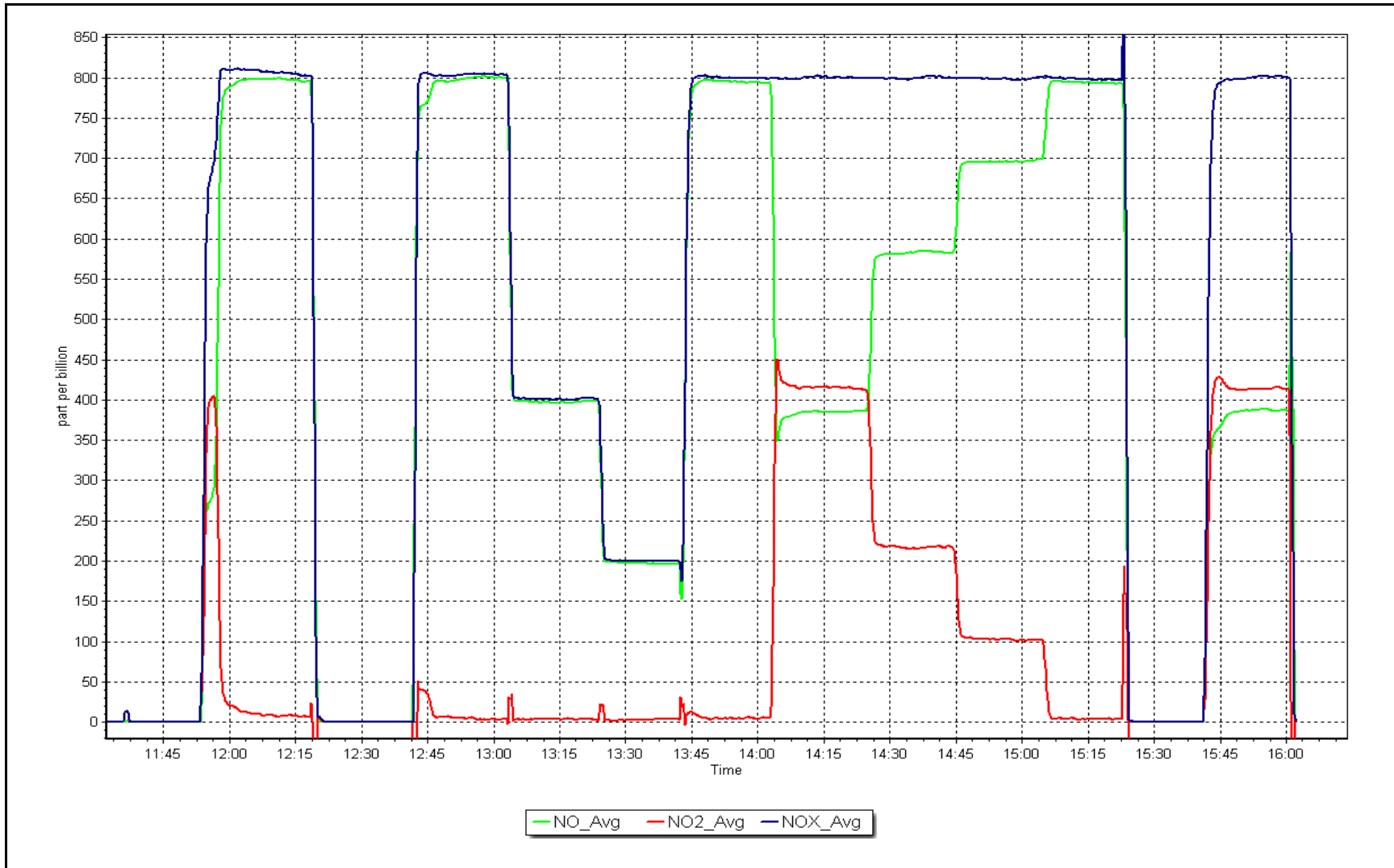
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999973	<i>≥0.995</i>
800.4	799.3	1.0014	Slope	0.999649	<i>0.90 - 1.10</i>
400.2	396.7	1.0088	Intercept	-1.920000	<i>+/-20</i>
200.1	196.5	1.0183			



NO_x Calibration Plot

Date: February 13, 2026

Location: Bertha Ganter-Fort McKay





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Bertha Ganter-Fort McKay	Station number: AMS 01
Calibration Date:	February 4, 2026	Last Cal Date: January 5, 2026
Start time (MST):	11:20	End time (MST): 14:12
Reason:	Routine	

Calibration Standards

O3 generation mode:	Photometer	
Calibrator Make/Model:	Teledyne API T700	Serial Number: 3565
ZAG Make/Model:	Teledyne API T701	Serial Number: 146

Analyzer Information

Analyzer make:	Teledyne API T400	Analyzer serial #: 7045
Analyzer Range	0 - 500 ppb	

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.007314	0.998657	Backgd or Offset:	2.7	2.7
Calibration intercept:	0.520000	0.960000	Coeff or Slope:	1.132	1.132

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.2	----
As found High point	5000	874.8	400.0	394.0	1.015
As found Mid point					
As found Low point					
Baseline Corr As found:	394.2	Previous response	403.4	*% change	-2.3%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	5000	874.8	400.0	399.7	1.001
Mid point	5000	744.0	200.0	201.8	0.991
Low point	5000	651.7	100.0	101.5	0.985
As left zero	5000	0.0	0.0	0.9	----
As left span	5000	874.8	400.0	405.8	0.986
Average Correction Factor					0.992

Notes: Changed the inlet filter after as founds. No adjustments made.

Calibration Performed By: Rene Chamberland



Wood Buffalo Environmental Association

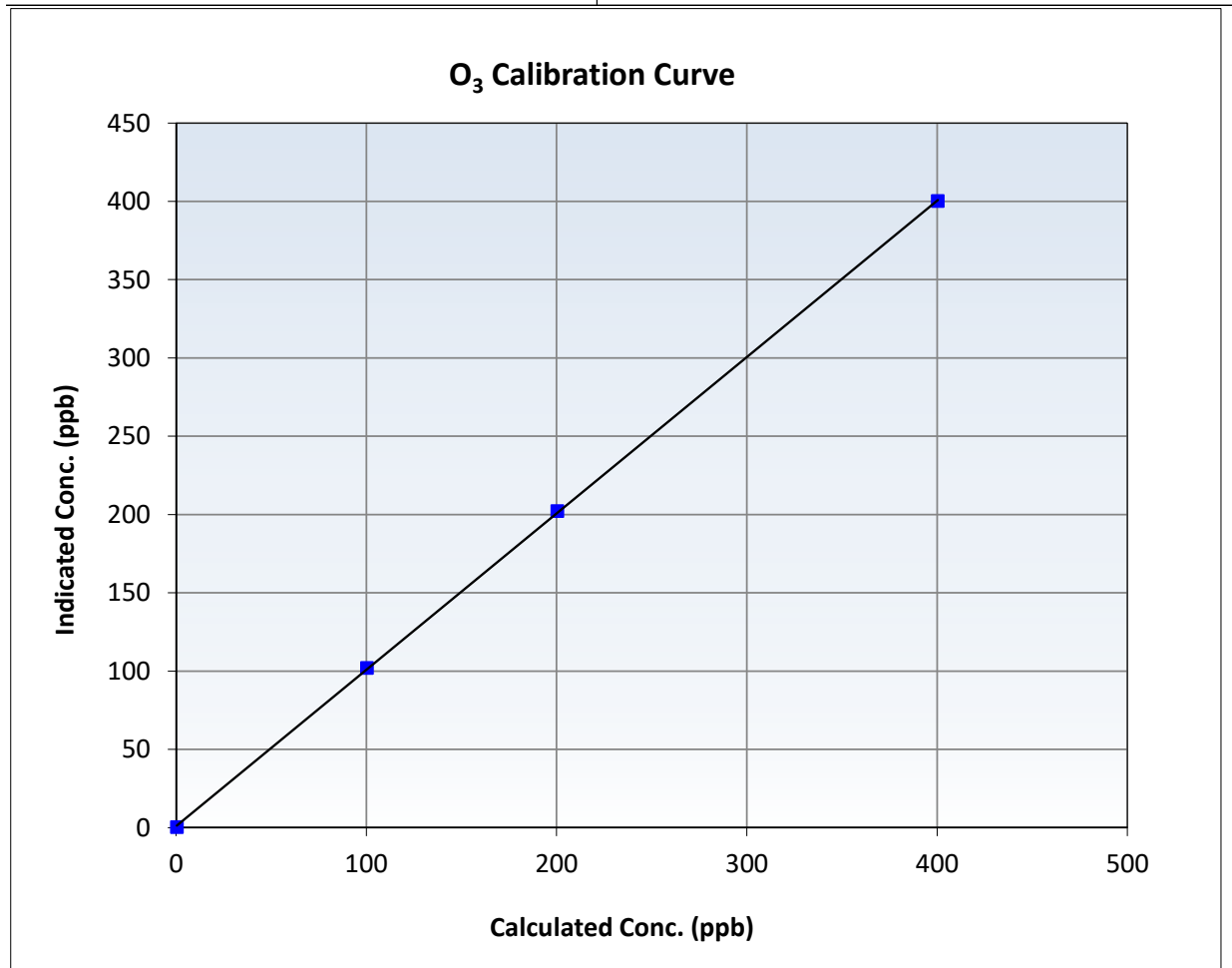
O₃ Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	January 5, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	11:20	End Time (MST):	14:12
Analyzer make:	Teledyne API T400	Analyzer serial #:	7045

Calibration Data

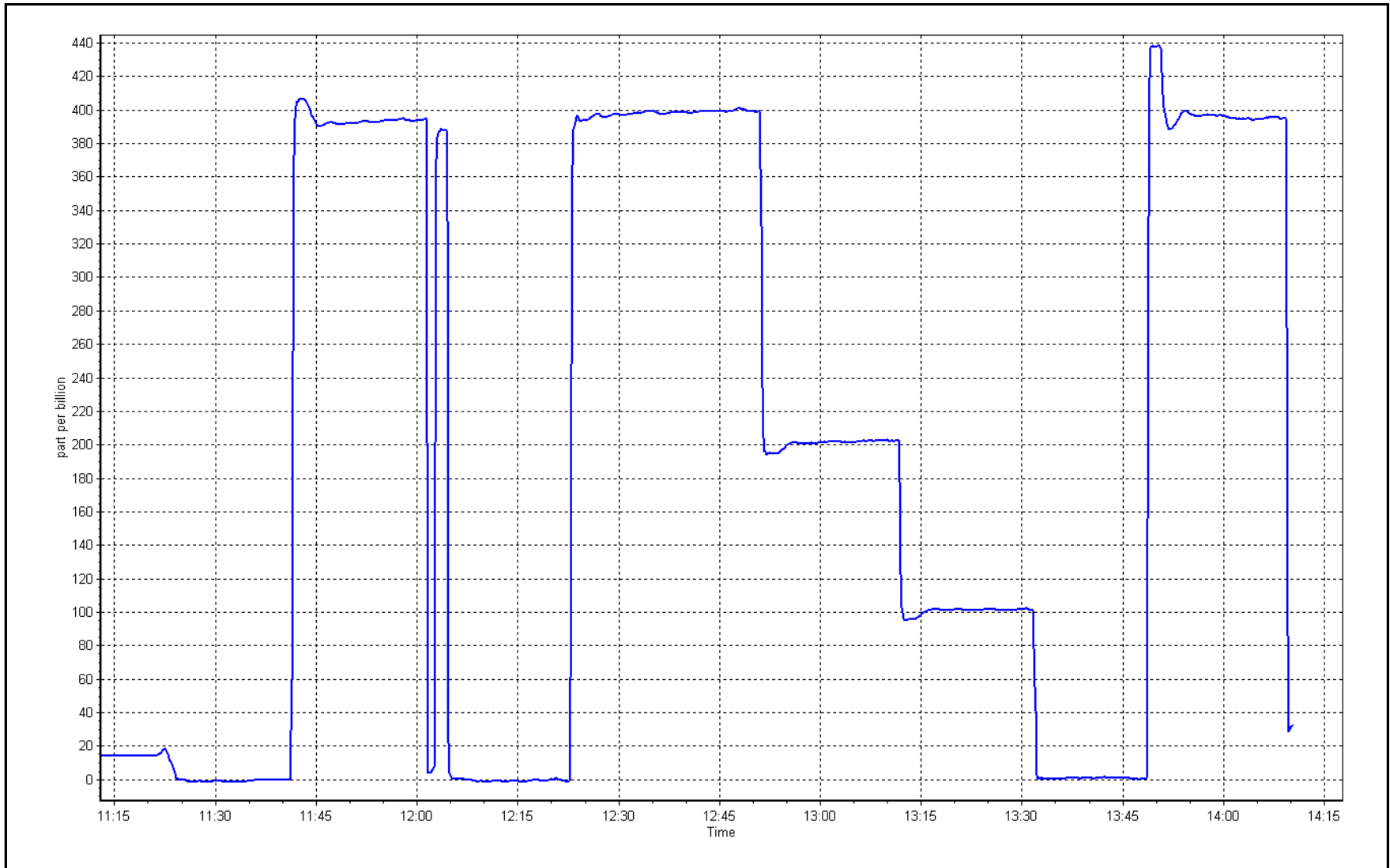
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.1	----	Correlation Coefficient	0.999962	≥0.995
400.0	399.7	1.0008	Slope	0.998657	0.90 - 1.10
200.0	201.8	0.9911	Intercept	0.960000	+/- 5
100.0	101.5	0.9852			



O₃ Calibration Plot

Date: February 4, 2026

Location: Bertha Ganter-Fort McKay





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Fort McKay - Bertha Ganter Station number: AMS 01
Calibration Date: February 24, 2026 Last Cal Date: January 28, 2026
Start time (MST): 11:23 End time (MST): 13:02

Analyzer Make: Teledyne API T640 S/N: 323
Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388752
Temp/RH standard: Alicat FP-25BT S/N: 388752

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-16.3	-17.5	-16.3	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	731	730.08	731	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	5.01	4.897	5.01	<input type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	87		76	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA:	<u>6.7</u>	PM w/ HEPA:	<u>0.0</u>	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: **10.9** Expiry Date: June 10, 2024
Lot No.: 100128-050-042

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test	10.1	10.7	10.7	<input type="checkbox"/>	10.9 +/- 0.5

Date Optical Chamber Cleaned: February 24, 2026
Date Disposable Filter Changed: February 24, 2026

Post- maintenance Zero Verification: PM w/ HEPA: 0.0 <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: February 24, 2026
Date RH/T Sensor Cleaned: February 24, 2026

Notes: Flow, temperature, and pressure were verified. Leak checks passed. PMT peak test completed. Optical sensor, RH/T sensor and sample tube cleaned. Disposable filter changed.

Calibration by: Rene Chamberland



Wood Buffalo Environmental Association

Nt - NOX - NH3 Calibration Report

Station Information

Station Name:	Bertha Ganter-Fort McKay	Station number:	AMS 01
NOX Cal Date:	February 24, 2026	Last Cal Date:	January 27, 2026
Start time (MST):	9:49	End time (MST):	14:15
NH3 Cal Date:	February 24, 2026	Last Cal Date:	January 28, 2026
Start time (MST):	14:30	End time (MST):	15:53
Reason:	Routine		

Calibration Standards

NOX Cal Gas Conc:	59.40	ppm	NO Gas Cylinder #:	CC335700
NO Cal Gas Conc:	59.20	ppm	NO Cal Gas Expiry:	September 1, 2032
Removed NOX Conc:	59.40	ppm	Removed Cylinder #:	NA
Removed NO Conc:	59.20	ppm	Removed cyl Expiry:	NA
NOX gas Diff:			NO gas Diff:	
NH3 Cal Gas Conc:	76.58	ppm	NH3 Gas Cylinder #:	CC482625
Removed NH3 Conc:	76.58	ppm	NH3 Cal Gas Expiry:	September 10, 2026
NH3 gas Diff:			Removed Cylinder #:	NA
Calibrator Model:	API T700		Removed cyl Expiry:	NA
ZAG make/model:	API T701		Serial Number:	3565
			Serial Number:	146

Analyzer Information

Analyzer model:	API T201	Analyzer serial #:	152
Converter model:	API T501	Converter serial #:	484
NH3 Range (ppb):	0 - 2000 ppb	Reaction cell Press:	8.00
NOX Range (ppb):	0 - 1000 ppb	Sample Flow:	545

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coefficient:	0.978	0.982	Nt coefficient:	0.993	0.995
NOX coefficient:	0.984	0.986	NO bkgrnd:	-0.6	-0.1
NO2 coefficient:	1.000	1.000	NOX bkgrnd:	-0.5	-0.2
NH3 coefficient:	0.970	0.970	Nt bkgrnd:	-0.2	0.0

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.999371	0.995685
NO _x Cal Offset:	-1.080000	-1.660000
NO Cal Slope:	0.999163	0.999506
NO Cal Offset:	-1.000000	-3.120000
NO ₂ Cal Slope:	1.010970	1.002794
NO ₂ Cal Offset:	0.577158	-0.258715
NH3 Cal Slope:	1.000087	0.996264
NH3 Cal Offset:	-0.945989	0.483242
Nt Cal Slope:	1.003641	0.999390
Nt Cal Offset:	-0.178982	1.279057



Wood Buffalo Environmental Association

NO_x - NO - NO₂ Calibration Report

NO_x / NO / Nt As Found Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated Nt concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated Nt concentration (ppb) (Ic)	Baseline corr NO _x Correction factor (Cc/Ic) <i>Limit = 0.9 - 1.0</i>	Baseline corr NO Correction factor (Cc/Ic) <i>Limit = 0.9 - 1.0</i>
As found zero	5000	0.0	0.0	0.0	0.0	2.1	1.4	0.6	----	----
As found span	4932	67.6	803.1	800.4	803.1	797.2	797.7	800.8	1.0074	1.0034
AF GPT span										
new NO cyl rp										

Baseline Corr As Fd Nt = 800.2 ppb NO_x = 795.1 ppb NO = 796.3 ppb
 Previous Response Nt = 805.83 ppb NO_x = 801.5 ppb NO = 798.7 ppb

*Percent Change Nt(NO) = -0.7%

*Percent Change NO_x = -0.8%

*Percent Change NO = -0.3%

**NO_x Δ (NO to GPT response) =

* * = > +/-2% difference initiates investigation

* = > +/-5% change initiates investigation

NO_x / NO / Nt Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated Nt concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated Nt concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibration zero	5000	0.0	0.0	0.0	0.0	0.6	-0.7	0.5	----	----
High point	4932	67.6	803.1	800.4	803.1	800.0	798.8	803.0	1.0039	1.0020
Mid point	4966	33.8	401.5	400.2	401.5	394.3	393.5	398.2	1.0184	1.0170
Low point	4983	16.9	200.8	200.1	200.8	197.8	195.9	198.6	1.0150	1.0214
Average Correction Factor									1.0124	1.0135

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found zero	----	----	0.0	0.7	----	----
Calibration zero	----	----	0.0	1.2	----	----
High GPT point (400 ppb O3)	784.8	381.4	406.1	407.9	0.9956	100.4%
Mid GPT point (200 ppb O3)	784.8	571.1	216.4	215.6	1.0037	99.6%
Low GPT point (100 ppb O3)	784.8	685.9	101.6	100.4	1.0120	98.8%
Average Correction Factor					1.0038	99.6%



Wood Buffalo Environmental Association NH₃ - N_T Calibration Report

NH₃ As Found Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated Nt concentration (ppb) (Cc)	Calculated NOX concentration (ppb) (Cc)	Calculated NH3 concentration (ppb) (Cc)	Indicated Nt concentration (ppb) (Ic)	Indicated NOX concentration (ppb) (Ic)	Indicated NH3 concentration (ppb) (Ic)	Baseline corr Nt Correction factor (Cc/(Ic-zero)) <i>Limit = 0.9 - 1.1</i>	Baseline corr NH3 Correction factor (Cc/(Ic-zero)) <i>Limit = 0.9 - 1.1</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.5	0.6	-0.1	----	----
AF High point										
AF Mid point										
AF Low point										
new NH3 cyl rp										
Baseline Corr As Fd	Nt =	NA ppb	NH3 =	NA ppb					*Percent Change	Nt _(NH3) = NA
Previous Response	Nt =	NA ppb	NH3 =	NA ppb					*Percent Change	NH3 = NA

* = > +/-5% change initiates investigation

NH₃ Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated Nt concentration (ppb) (Cc)	Calculated NOX concentration (ppb) (Cc)	Calculated NH3 concentration (ppb) (Cc)	Indicated Nt concentration (ppb) (Ic)	Indicated NOX concentration (ppb) (Ic)	Indicated NH3 concentration (ppb) (Ic)	Nt Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NH3 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibration zero	5000	0.0	0.0	0.0	0.0	0.5	0.6	-0.1	----	----
High point	2930	70.5	1799.6	0.0	1799.6	1798.9	5.5	1793.2	1.000	1.004
Mid point	2961	39.2	1000.6	0.0	1000.6	1002.9	5.6	997.3	0.998	1.003
Low point	2980	19.6	500.3	0.0	500.3	501.4	1.6	499.8	0.998	1.001
								Average Correction Factor	0.9987	1.0027
NH3 Previous Converter Efficiency =		97.0 %								
NH3 Current Converter Efficiency =		97.0 %								

Notes:

Changed the inlet filter after as founds. Adjusted the NOx, NO, NT zero.

Calibration Performed By:

Rene Chamberland



Wood Buffalo Environmental Association

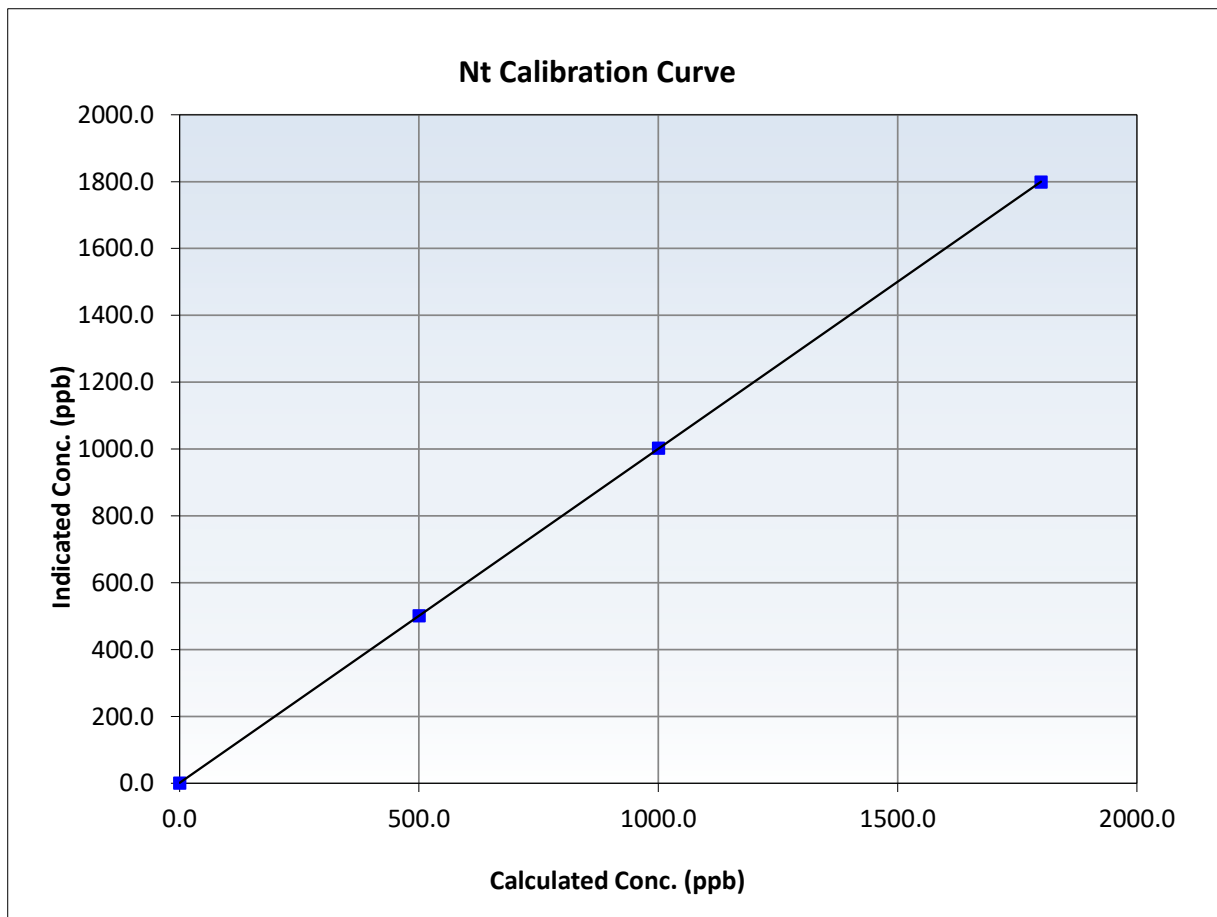
Nt Calibration Summary

Station Information

Calibration Date:	February 24, 2026	Previous Calibration:	January 27, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	9:49	End Time (MST):	14:15
Analyzer make:	API T201	Analyzer serial #:	152

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.5	----	Correlation Coefficient	0.999998	<i>≥0.995</i>
1799.6	1798.9	1.0004	Slope	0.999390	<i>0.90 - 1.10</i>
1000.6	1002.9	0.9978	Intercept	1.279057	<i>+/-20</i>
500.3	501.4	0.9979			





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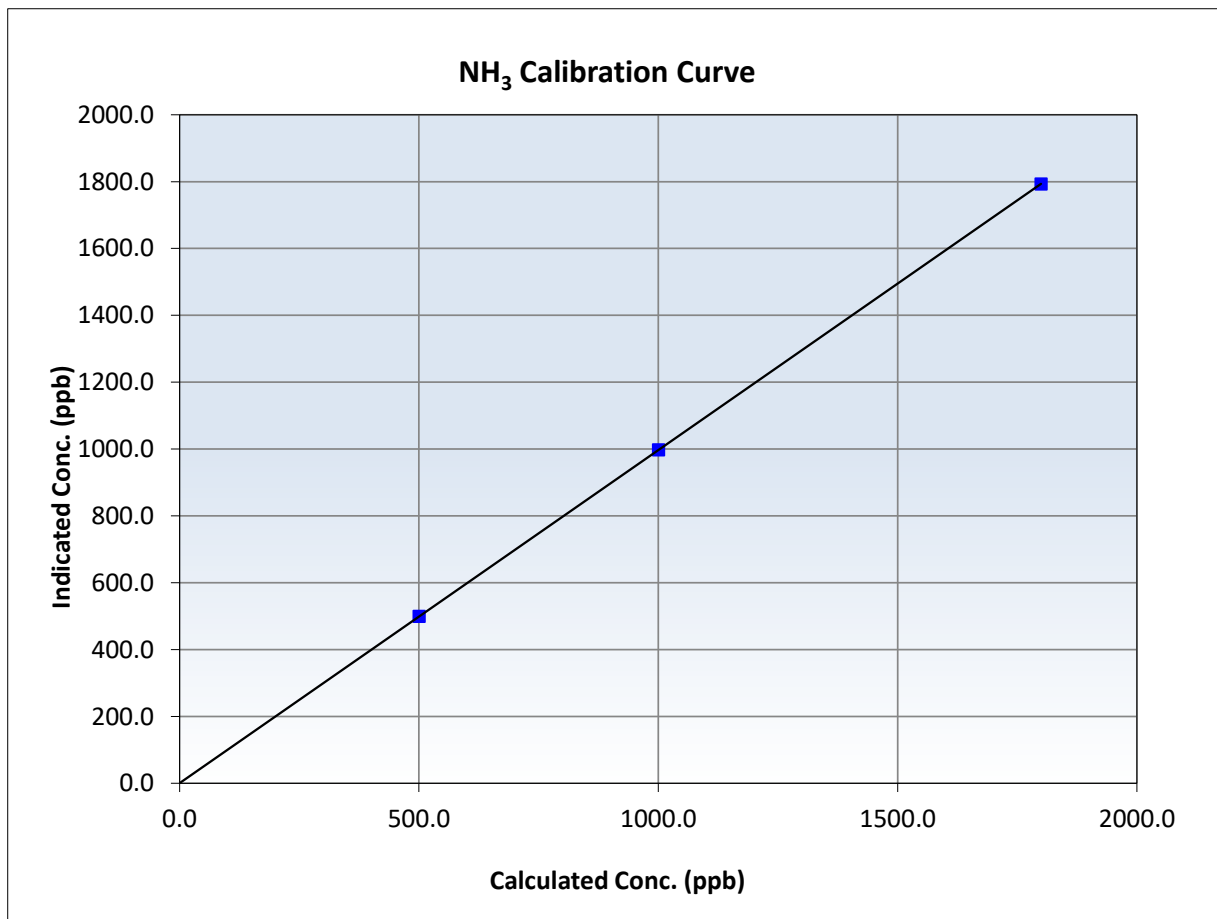
NH₃ Calibration Summary

Station Information

Calibration Date:	February 24, 2026	Previous Calibration:	January 27, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	9:49	End Time (MST):	14:15
Analyzer make:	API T201	Analyzer serial #:	152

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.1	----	Correlation Coefficient	0.999999	<i>≥0.995</i>
1799.6	1793.2	1.0036	Slope	0.996264	<i>0.90 - 1.10</i>
1000.6	997.3	1.0034	Intercept	0.483242	<i>+/-20</i>
500.3	499.8	1.0010			





Wood Buffalo Environmental Association

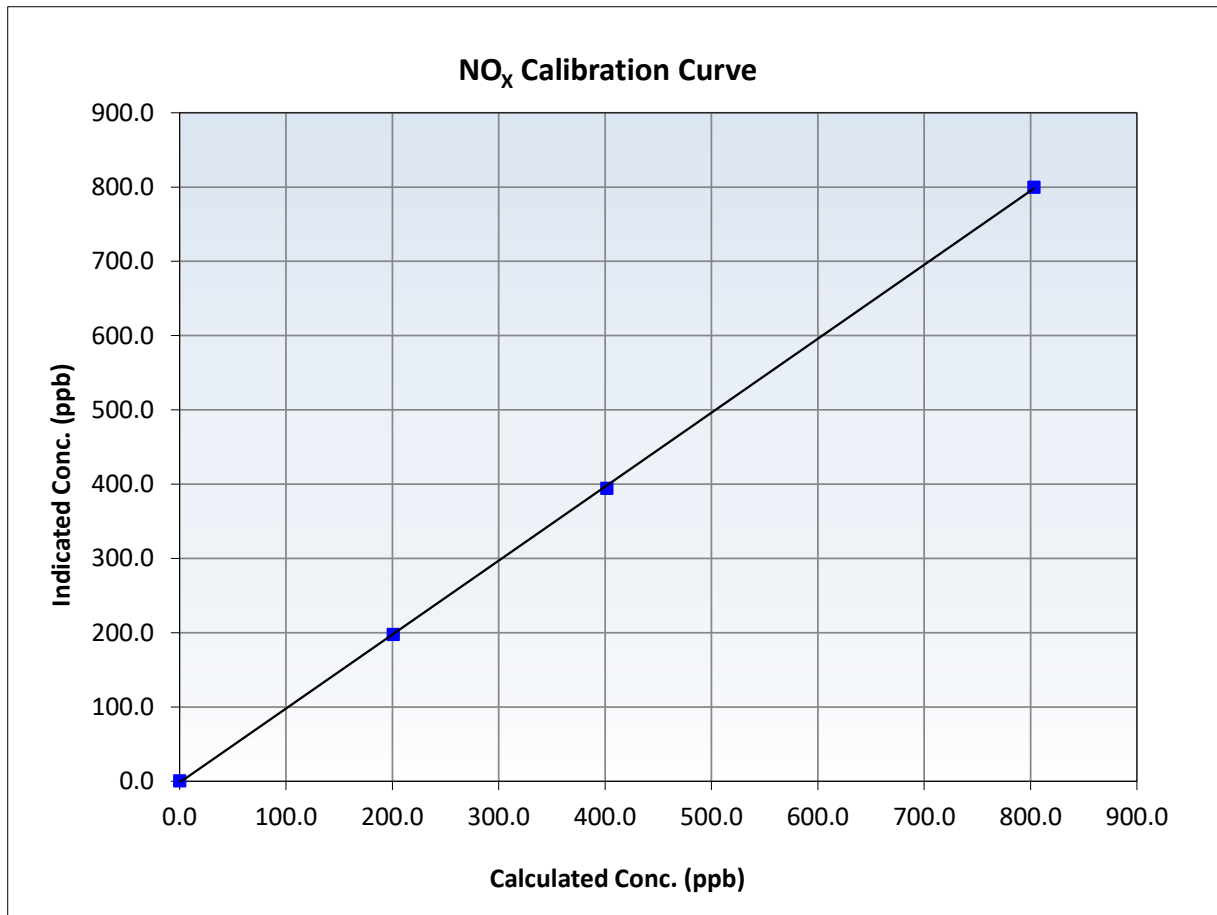
NO_x Calibration Summary

Station Information

Calibration Date:	February 24, 2026	Previous Calibration:	January 27, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	9:49	End Time (MST):	14:15
Analyzer make:	API T201	Analyzer serial #:	152

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.6	----	Correlation Coefficient	0.999931	<i>≥0.995</i>
803.1	800.0	1.0039	Slope	0.995685	<i>0.90 - 1.10</i>
401.5	394.3	1.0184	Intercept	-1.660000	<i>+/-20</i>
200.8	197.8	1.0150			





Wood Buffalo Environmental Association

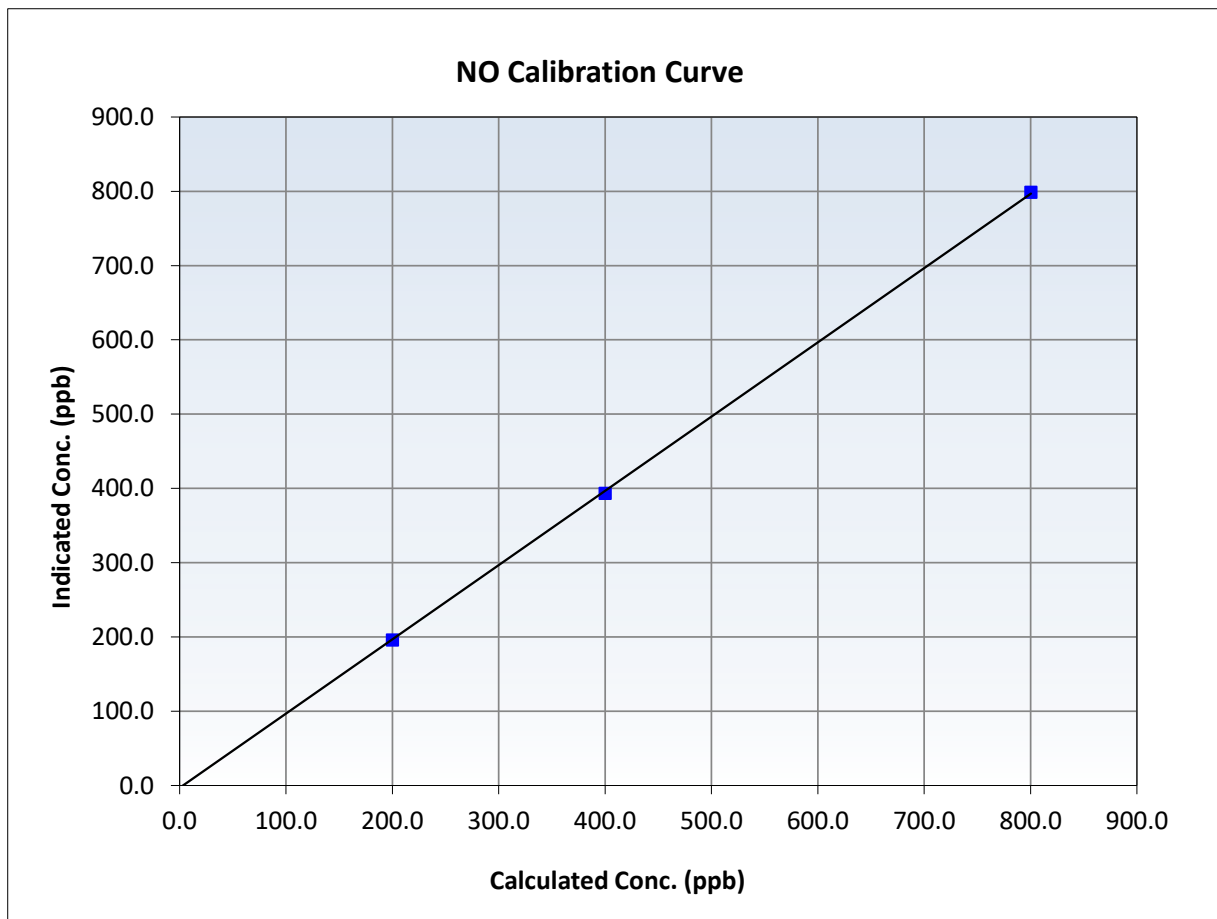
NO Calibration Summary

Station Information

Calibration Date:	February 24, 2026	Previous Calibration:	January 27, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	9:49	End Time (MST):	14:15
Analyzer make:	API T201	Analyzer serial #:	152

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.7	----	Correlation Coefficient	0.999937	≥ 0.995
800.4	798.8	1.0020	Slope	0.999506	0.90 - 1.10
400.2	393.5	1.0170	Intercept	-3.120000	+/-20
200.1	195.9	1.0214			





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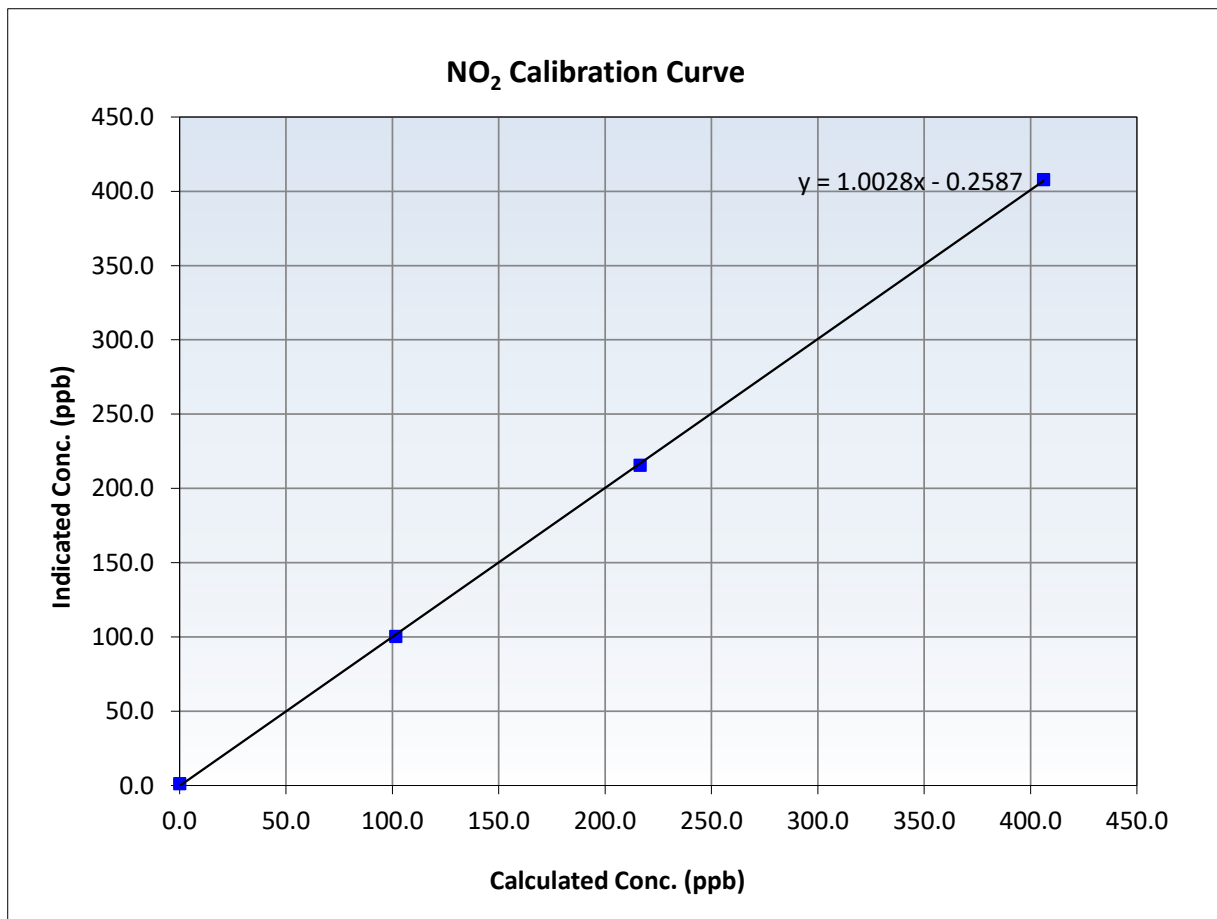
NO₂ Calibration Summary

Station Information

Calibration Date:	February 24, 2026	Previous Calibration:	January 27, 2026
Station Name:	Bertha Ganter-Fort McKay	Station Number:	AMS 01
Start Time (MST):	9:49	End Time (MST):	14:15
Analyzer make:	API T201	Analyzer serial #:	152

Calibration Data

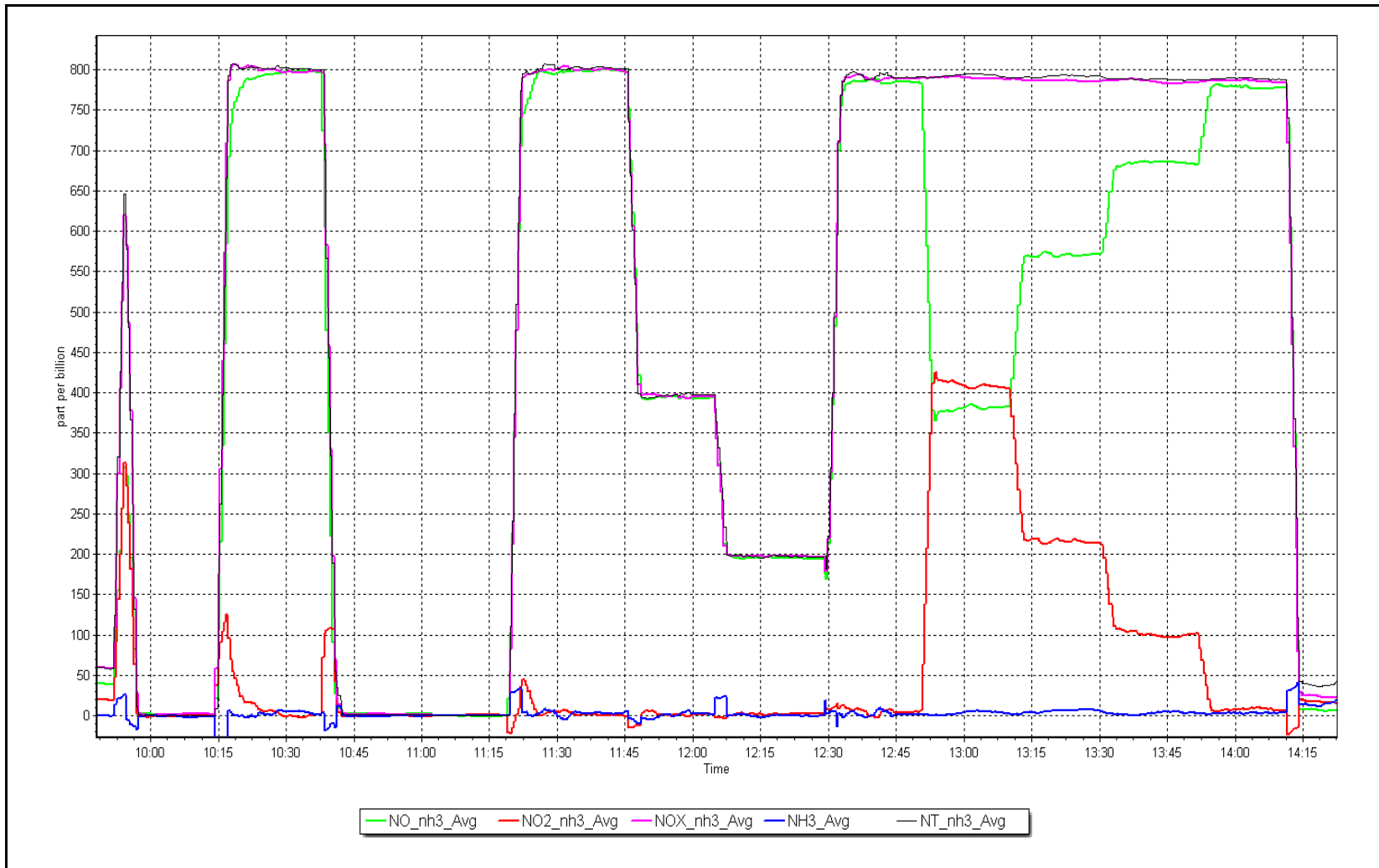
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	1.2	----	Correlation Coefficient	0.999937	<i>≥0.995</i>
406.1	407.9	0.9956	Slope	1.002794	<i>0.90 - 1.10</i>
216.4	215.6	1.0037	Intercept	-0.258715	<i>+/-20</i>
101.6	100.4	1.0120			



NO_x Calibration Plot

Date: February 24, 2026

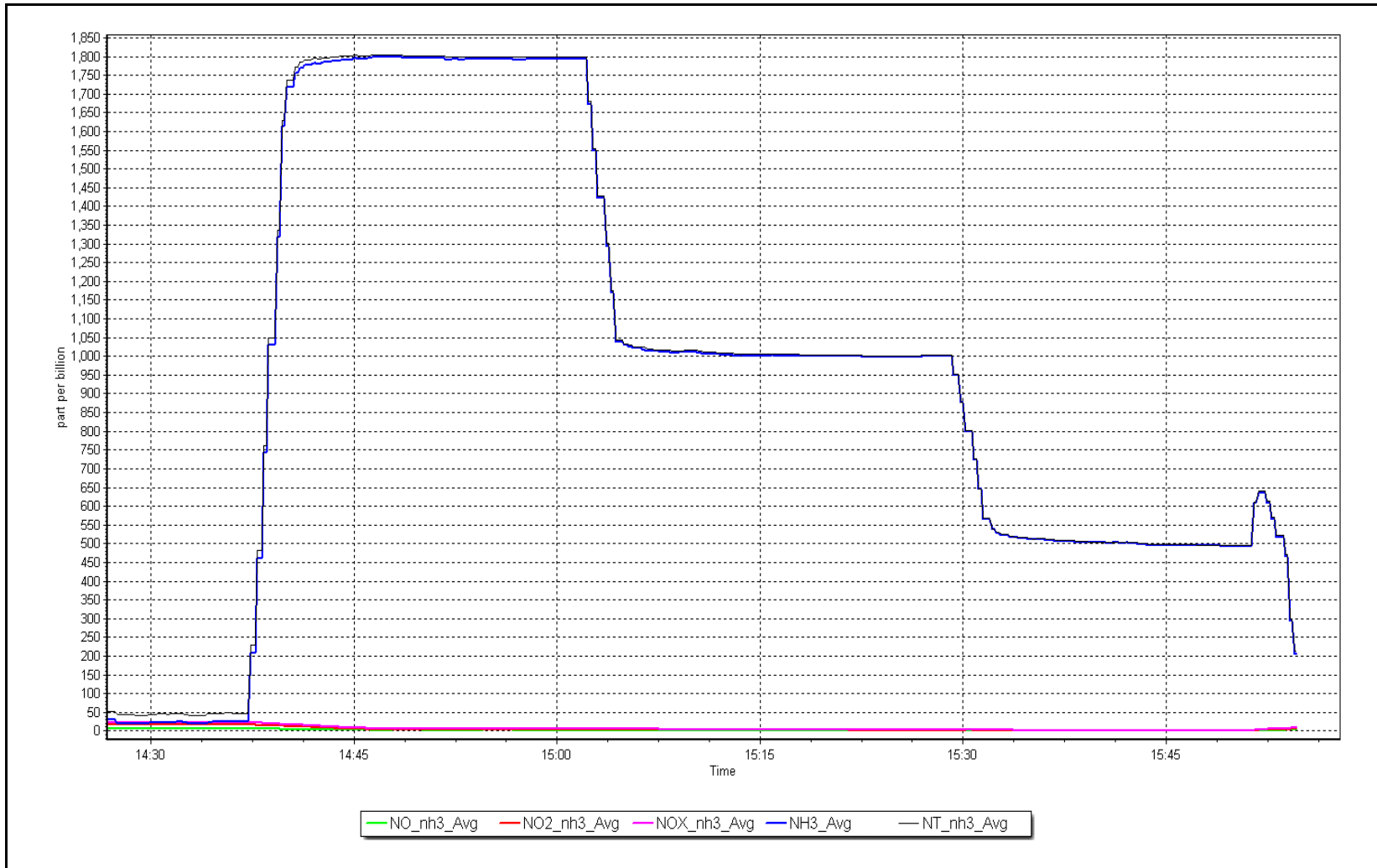
Location: Bertha Ganter-Fort McKay



NH₃ Calibration Plot

Date: February 24, 2026

Location: Bertha Ganter-Fort McKay





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS02 MILDRED LAKE FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Mildred Lake	Station number:	AMS 02
Calibration Date:	February 26, 2026	Last Cal Date:	January 29, 2026
Start time (MST):	11:41	End time (MST):	18:45
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.99	ppm	Cal Gas Exp Date:	October 9, 2023
Cal Gas Cylinder #:	EB0112903			
Removed Cal Gas Conc:	50.99	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:			Diff between cyl:	
Calibrator Model:	Teledyne API T700		Serial Number:	1185
Zero Air Gen Model:	Teledyne API T701		Serial Number:	4891

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	JC1404901075
Analyzer Range:	0-1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.007648	1.005984	Backgd or Offset:	24.9	25.4
Calibration intercept:	-0.229936	-1.372256	Coeff or Slope:	0.785	0.770

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.6	----
As found High point	4913	78.6	803.0	824.0	0.975
As found Mid point	4961	39.2	399.8	412.7	0.970
As found Low point	4980	19.6	199.9	203.0	0.988
New cylinder response					
Baseline Corr As found:	823.4	Previous response	808.9	*% change	1.8%
Baseline Corr 2nd AF pt:	412.1	AF Slope:	1.026834	AF Intercept:	0.010943
Baseline Corr 3rd AF pt:	202.4	AF Correlation:	0.999972	* => +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.6	----
High point	4913	78.4	801.0	806.0	0.994
Mid point	4961	39.2	399.8	397.9	1.005
Low point	4980	19.6	199.9	199.0	1.004
As left zero	5000	0.0	0.0	0.0	----
As left span	4913	78.4	801.0	809.0	0.990
Average Correction Factor:					1.001

Notes: Changed sample inlet filter after as founds. Adjusted zero and span.

Calibration Performed By: Braiden Boutilier



Wood Buffalo Environmental Association

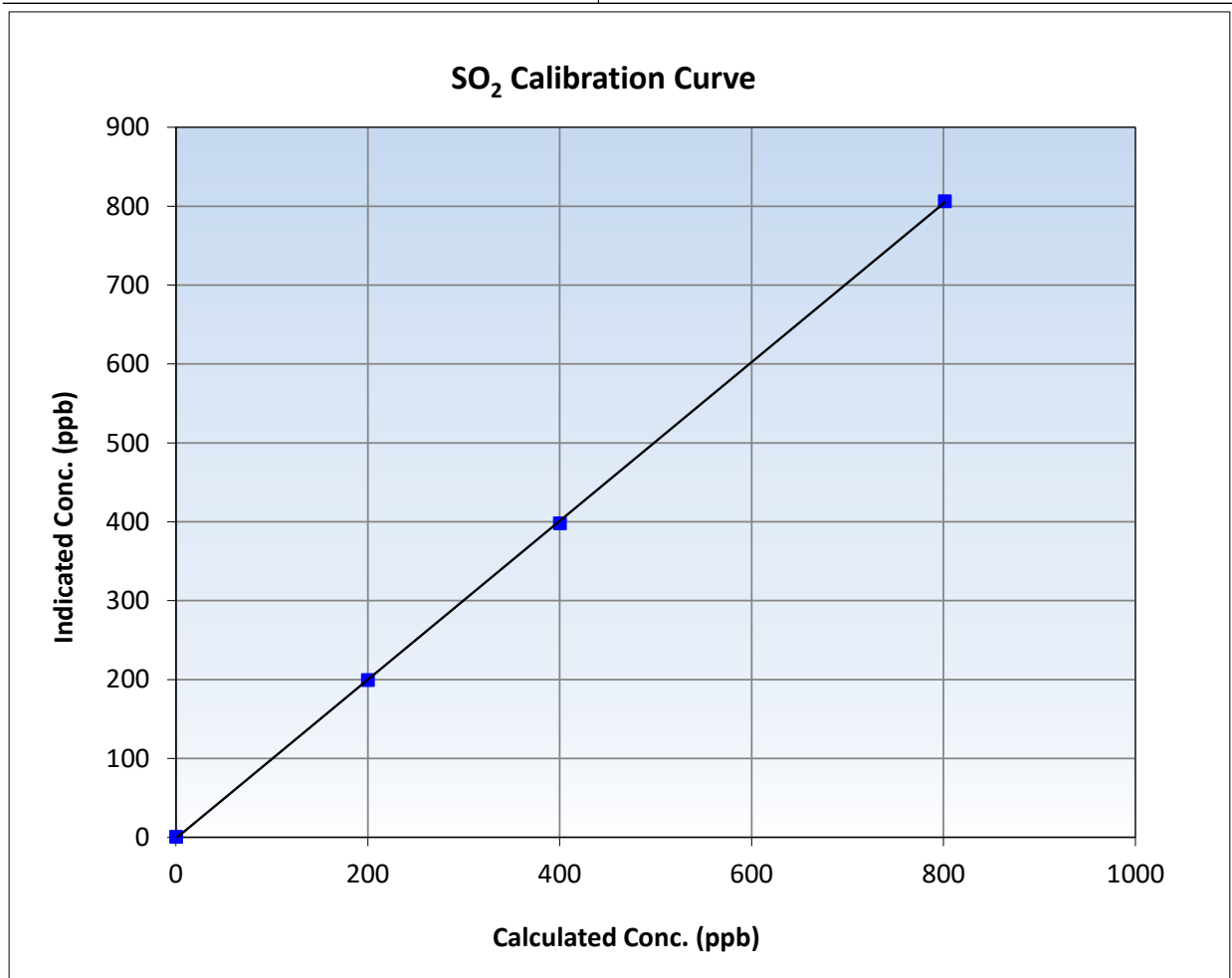
SO₂ Calibration Summary

Station Information

Calibration Date:	February 26, 2026	Previous Calibration:	January 29, 2026
Station Name:	Mildred Lake	Station Number:	AMS 02
Start Time (MST):	11:41	End Time (MST):	18:45
Analyzer make:	Thermo 43i	Analyzer serial #:	JC1404901075

Calibration Data

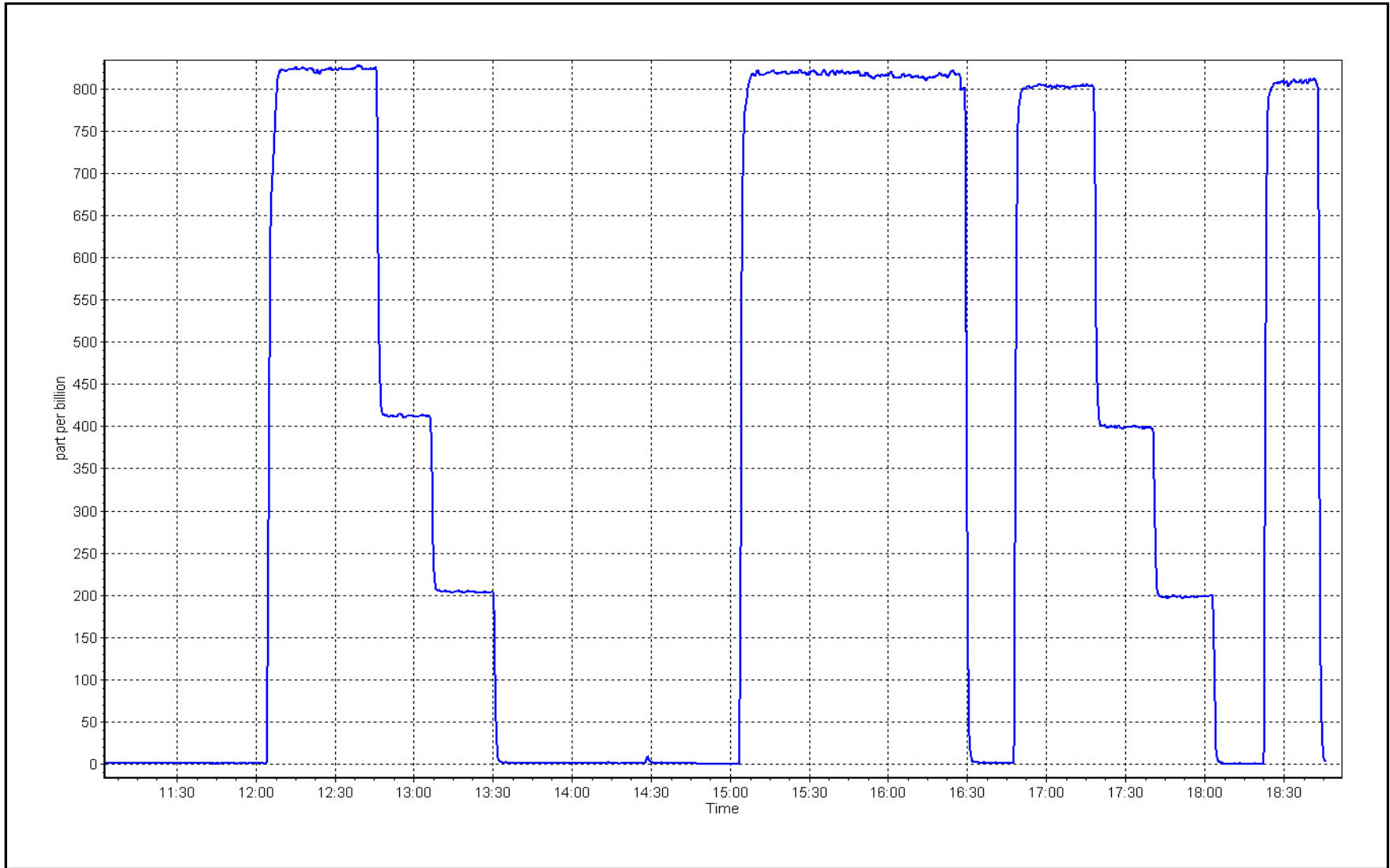
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	0.6	----	Correlation Coefficient	0.999957	≥0.995
801.0	806.0	0.9938	Slope	1.005984	0.90 - 1.10
399.8	397.9	1.0047	Intercept	-1.372256	+/-30
199.9	199.0	1.0044			



SO2 Calibration Plot

Date: February 26, 2026

Location: Mildred Lake





Wood Buffalo Environmental Association

H2S Calibration Report

Station Information

Station Name:	Mildred Lake	Station number:	AMS 02
Calibration Date:	February 4, 2026	Last Cal Date:	January 20, 2026
Start time (MST):	10:40	End time (MST):	15:26
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.75	ppm	Cal Gas Exp Date:	August 28, 2027
Cal Gas Cylinder #:	CC700774			
Removed Cal Gas Conc:	4.75	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700		Serial Number:	1185
ZAG Make/Model:	Teledyne API T701		Serial Number:	4891

Analyzer Information

Analyzer make:	Thermo 43iQTL	Analyzer serial #:	12333331546
Converter make:	Global G150	Converter serial #:	2023-267
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.001554	1.002697	Backgd or Offset:	1.58	1.58
Calibration intercept:	0.100000	0.060000	Coeff or Slope:	0.965	0.965

H2S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4916	84.2	80.0	80.2	0.999
As found Mid point	4958	42.1	40.0	40.2	0.997
As found Low point	4979	21.1	20.0	20.1	1.000
New cylinder response					
Baseline Corr As found:	80.1	Prev response:	80.21	*% change:	-0.1%
Baseline Corr 2nd AF pt:	40.1	AF Slope:	1.001554	AF Intercept:	0.100000
Baseline Corr 3rd AF pt:	20.0	AF Correlation:	0.999999	<i>* = > +/-5% change initiates investigation</i>	

H2S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.1	----
High point	4916	84.2	80.0	80.3	0.996
Mid point	4958	42.1	40.0	40.1	0.997
Low point	4979	21.1	20.0	20.1	0.995
As left zero	5000	0.0	0.0	0.1	----
As left span	4916	84.2	80.0	80.5	0.994
SO2 Scrubber Check	4922	78.4	783.9	0.0	----
Date of last scrubber change:		July 16, 2024		Ave Corr Factor	0.996
Date of last converter efficiency test:		NA			

Notes: Changed sample inlet filter after multipoint as founds. SO2 scrubber check done and passed. No adjustments made.

Calibration Performed By: Braiden Boutilier



Wood Buffalo Environmental Association

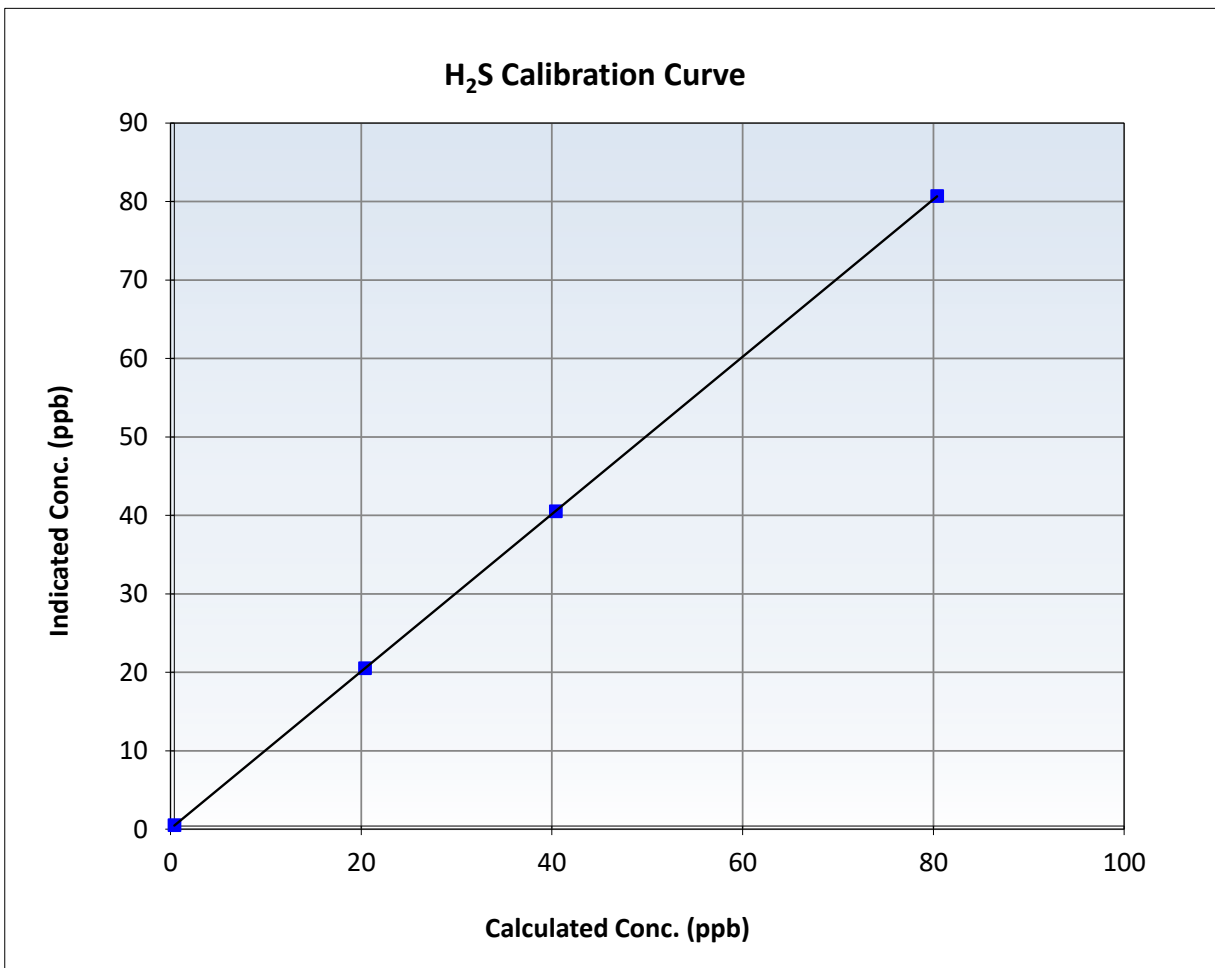
H2S Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	January 20, 2026
Station Name:	Mildred Lake	Station Number:	AMS 02
Start Time (MST):	10:40	End Time (MST):	15:26
Analyzer make:	Thermo 43iQTL	Analyzer serial #:	12333331546

Calibration Data

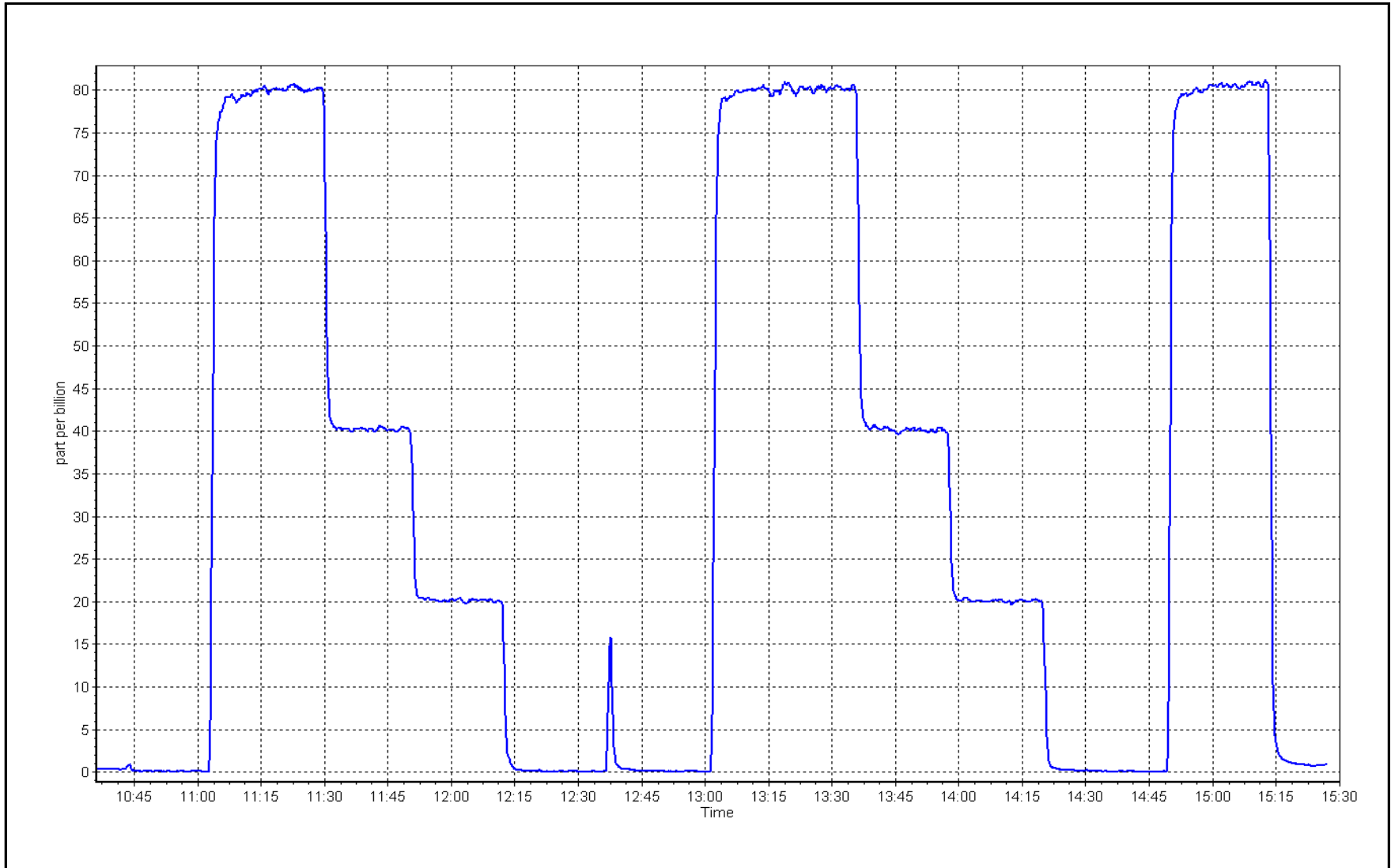
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.1	----	Correlation Coefficient	0.999998	≥ 0.995
80.0	80.3	0.9961	Slope	1.002697	$0.90 - 1.10$
40.0	40.1	0.9974	Intercept	0.060000	± 3
20.0	20.1	0.9949			



H2S Calibration Plot

Date: February 4, 2026

Location: Mildred Lake





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Mildred Lake	Station number:	AMS 02
Calibration Date:	February 26, 2026	Last Cal Date:	January 29, 2026
Start time (MST):	11:41	End time (MST):	13:35
Reason:	Removal		

Calibration Standards

Gas Cert Reference:	EB0112903	Cal Gas Expiry Date:	October 9, 2032
CH4 Cal Gas Conc.	503.1 ppm	CH4 Equiv Conc.	1067.1 ppm
C3H8 Cal Gas Conc.	205.1 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH4 Conc.	503.1 ppm	CH4 Equiv Conc.	1067.1 ppm
Removed C3H8 Conc.	205.1 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	1185
Zero Air Gen model:	Teledyne API T701	Serial Number:	4891

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1180320040
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	4.87E-04		NMHC SP Ratio:	7.68E-05
CH4 Retention time:	15.7		NMHC Peak Area:	115165
Zero Chromatogram:	ON		Flat Baseline:	ON

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4922	78.4	16.73	17.01	0.984
As found Mid point	4961	39.2	8.37	8.52	0.982
As found Low point	4980	19.6	4.18	4.09	1.023
New cylinder response					
Baseline Corr AF:	17.01	Prev response	16.69	*% change	1.9%
Baseline Corr 2nd AF:	8.52	AF Slope:	1.020120	AF Intercept:	-0.062673
Baseline Corr 3rd AF:	4.09	AF Correlation:	0.999877	* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero					
High point					
Mid point					
Low point					
As left zero					
As left span					

Average Correction Factor

Notes: Removal completed to replace analyzer on February 27.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	---- <i>Limit = 0.90-1.10</i>
As found High point	4922	78.4	8.84	8.86	0.998
As found Mid point	4961	39.2	4.42	4.48	0.987
As found Low point	4980	19.6	2.21	2.14	1.035
New cylinder response					
Baseline Corr AF:	8.86	Prev response	8.79	*% change	0.8%
Baseline Corr 2nd AF:	4.48	AF Slope:	1.005546	AF Intercept:	-0.021743
Baseline Corr 3rd AF:	2.14	AF Correlation:	0.999825	* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero					<i>Limit = 0.95-1.05</i>
High point					
Mid point					
Low point					
As left zero					
As left span					

Average Correction Factor

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	---- <i>Limit = 0.90-1.10</i>
As found High point	4922	78.4	7.89	8.16	0.967
As found Mid point	4961	39.2	3.94	4.04	0.976
As found Low point	4980	19.6	1.97	1.95	1.010
New cylinder response					
Baseline Corr AF:	8.16	Prev response	7.90	*% change	3.2%
Baseline Corr 2nd AF:	4.04	AF Slope:	1.037777	AF Intercept:	-0.042730
Baseline Corr 3rd AF:	1.95	AF Correlation:	0.999867	* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero					<i>Limit = 0.95-1.05</i>
High point					
Mid point					
Low point					
As left zero					
As left span					

Average Correction Factor

Calibration Statistics

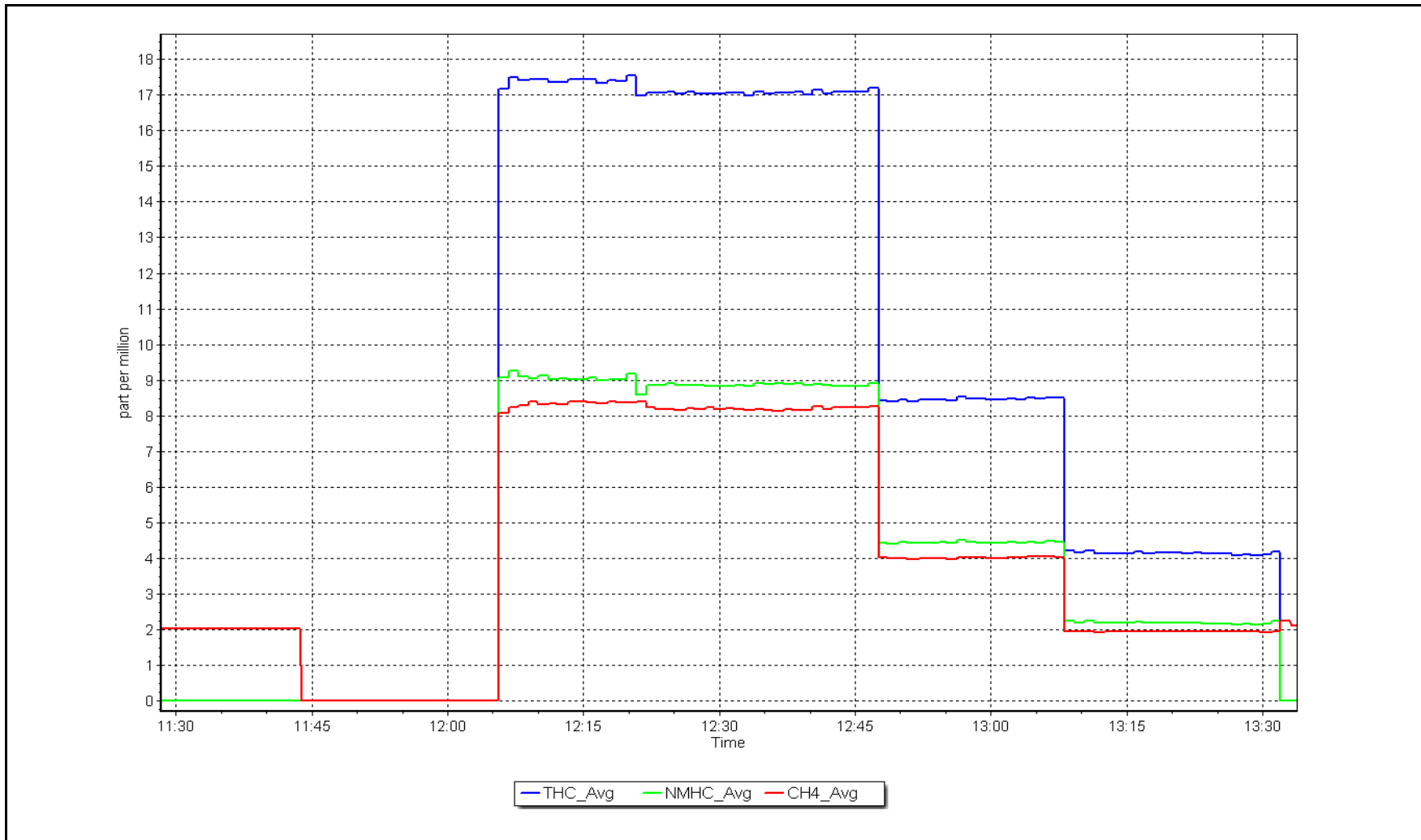
	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	1.001362	
THC Cal Offset:	-0.066866	
CH ₄ Cal Slope:	1.007350	
CH ₄ Cal Offset:	-0.043726	
NMHC Cal Slope:	0.996073	
NMHC Cal Offset:	-0.023341	

Calibration Performed By: Braiden Boutillier

NMHC Calibration Plot

Date: February 26, 2026

Location: Mildred Lake





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Mildred Lake	Station number:	AMS 02
Calibration Date:	February 27, 2026	Last Cal Date:	NA
Start time (MST):	12:00	End time (MST):	14:27
Reason:	Install		

Calibration Standards

Gas Cert Reference:	EB0112903	Cal Gas Expiry Date:	October 9, 2032
CH4 Cal Gas Conc.	503.1 ppm	CH4 Equiv Conc.	1067.1 ppm
C3H8 Cal Gas Conc.	205.1 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH4 Conc.	503.1 ppm	CH4 Equiv Conc.	1067.1 ppm
Removed C3H8 Conc.	205.1 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	1185
Zero Air Gen model:	Teledyne API T701	Serial Number:	4891

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1193585649
THC Range: 0 - 20 ppm	NMHC/CH4 Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	NA	3.71E-04	NMHC SP Ratio:	NA
CH4 Retention time:	NA	16.8	NMHC Peak Area:	NA
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero					
As found High point					
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	NA	Prev response	NA	*% change	NA
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	
High point	4922	78.4	16.73	16.63	1.006
Mid point	4961	39.2	8.37	8.22	1.018
Low point	4980	19.6	4.18	4.09	1.024
As left zero	5000	0.0	0.00	0.00	----
As left span	4922	78.4	16.73	16.45	1.017
Average Correction Factor					1.016

Notes: Install cal



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero)) <i>Limit = 0.90-1.10</i>
As found zero					
As found High point					
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	NA	Prev response	NA	*% change	NA
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4922	78.4	8.84	8.79	1.006
Mid point	4961	39.2	4.42	4.36	1.015
Low point	4980	19.6	2.21	2.18	1.016
As left zero	5000	0.0	0.00	0.00	----
As left span	4922	78.4	8.84	8.70	1.017
Average Correction Factor					1.012

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero)) <i>Limit = 0.90-1.10</i>
As found zero					
As found High point					
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	NA	Prev response	NA	*% change	NA
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4922	78.4	7.89	7.84	1.006
Mid point	4961	39.2	3.94	3.87	1.021
Low point	4980	19.6	1.97	1.91	1.033
As left zero	5000	0.0	0.00	0.00	----
As left span	4922	78.4	7.89	7.75	1.017
Average Correction Factor					1.020

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	NA	0.994901
THC Cal Offset:	NA	-0.048064
CH ₄ Cal Slope:	NA	0.995861
CH ₄ Cal Offset:	NA	-0.032324
NMHC Cal Slope:	NA	0.994147
NMHC Cal Offset:	NA	-0.016140

Calibration Performed By: Ryan Power



Wood Buffalo Environmental Association

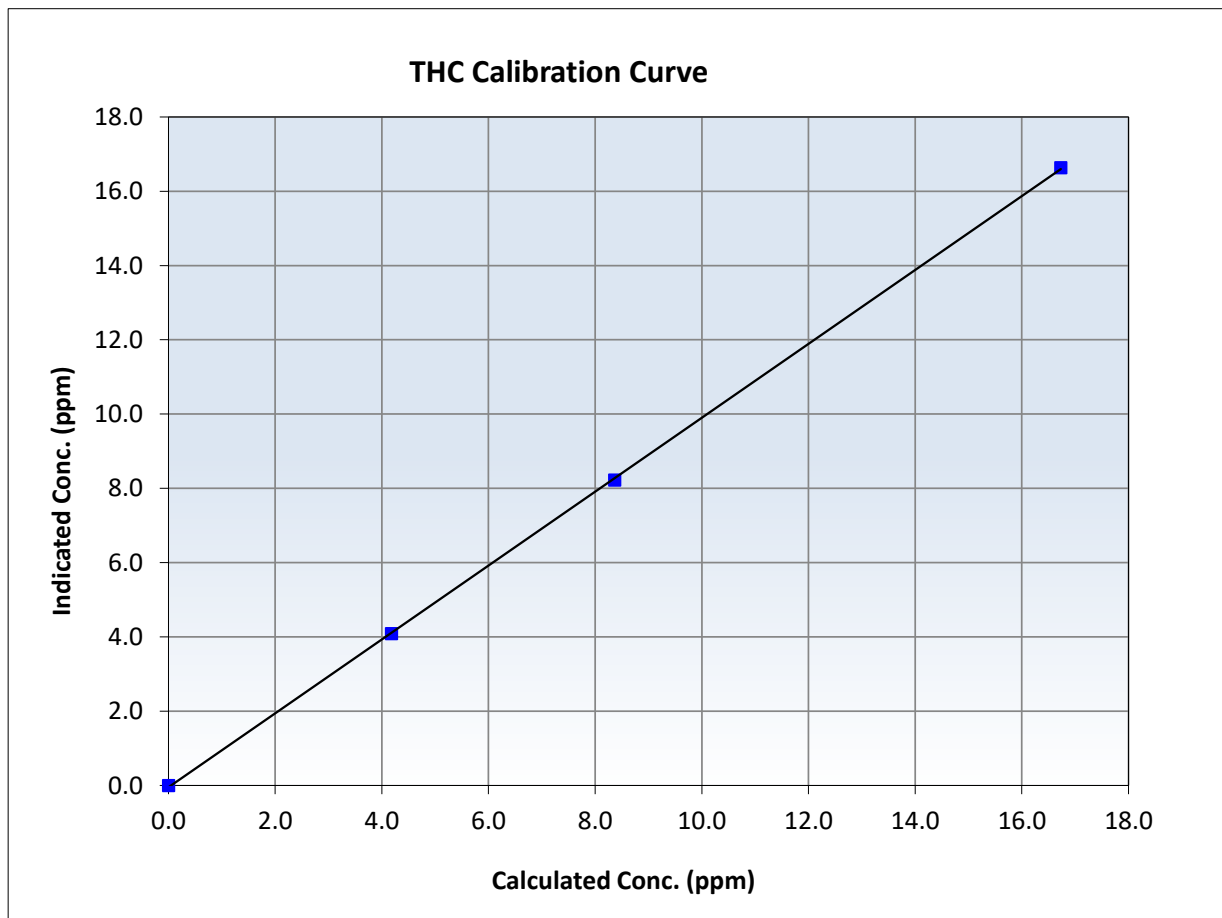
THC Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	NA
Station Name:	Mildred Lake	Station Number:	AMS 02
Start Time (MST):	12:00	End Time (MST):	14:27
Analyzer make:	Thermo 55i	Analyzer serial #:	1193585649

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999952	<i>≥0.995</i>
16.73	16.63	1.0060	Slope	0.994901	<i>0.90 - 1.10</i>
8.37	8.22	1.0177	Intercept	-0.048064	<i>+/-0.5</i>
4.18	4.09	1.0238			





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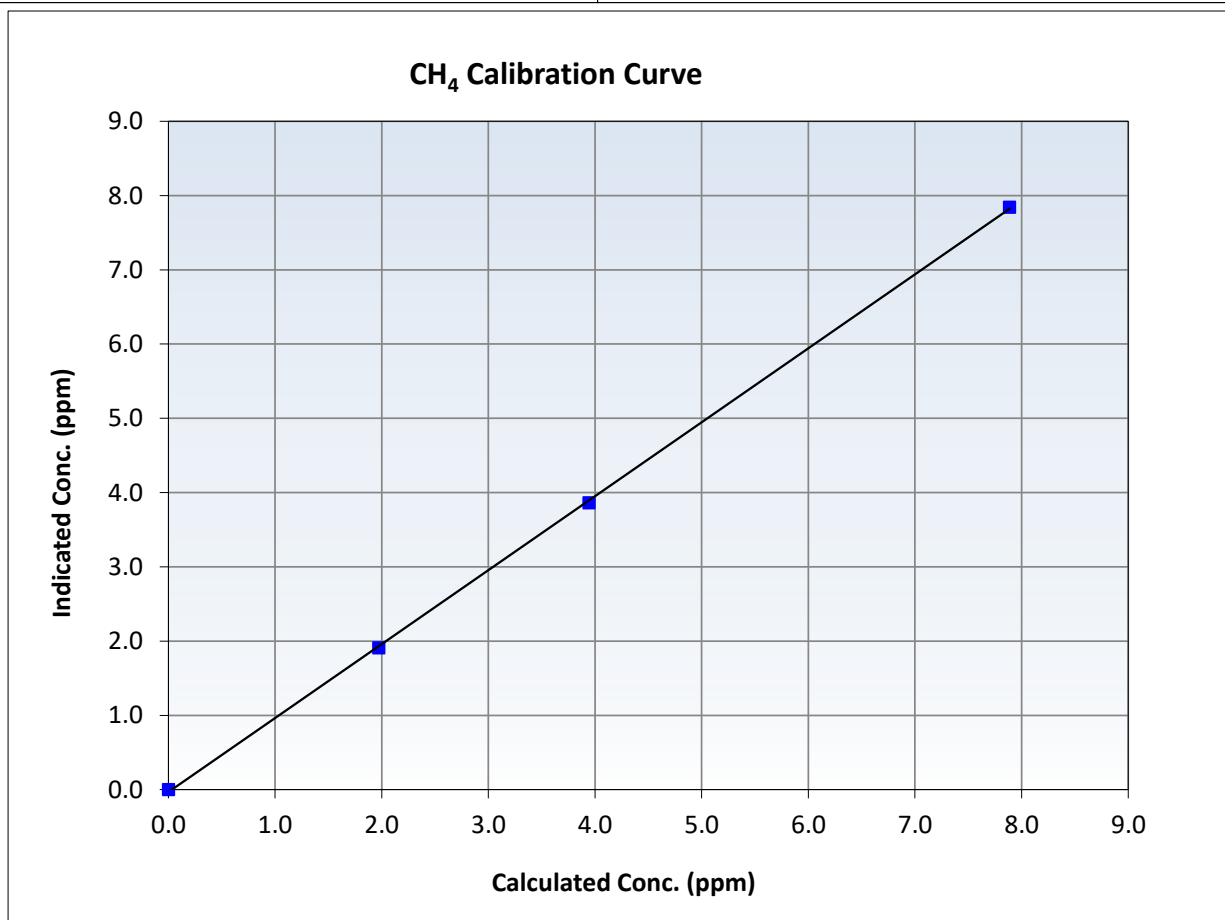
CH₄ Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	NA
Station Name:	Mildred Lake	Station Number:	AMS 02
Start Time (MST):	12:00	End Time (MST):	14:27
Analyzer make:	Thermo 55i	Analyzer serial #:	1193585649

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999913	<i>≥0.995</i>
7.89	7.84	1.0056	Slope	0.995861	<i>0.90 - 1.10</i>
3.94	3.87	1.0205	Intercept	-0.032324	<i>+/-0.5</i>
1.97	1.91	1.0331			





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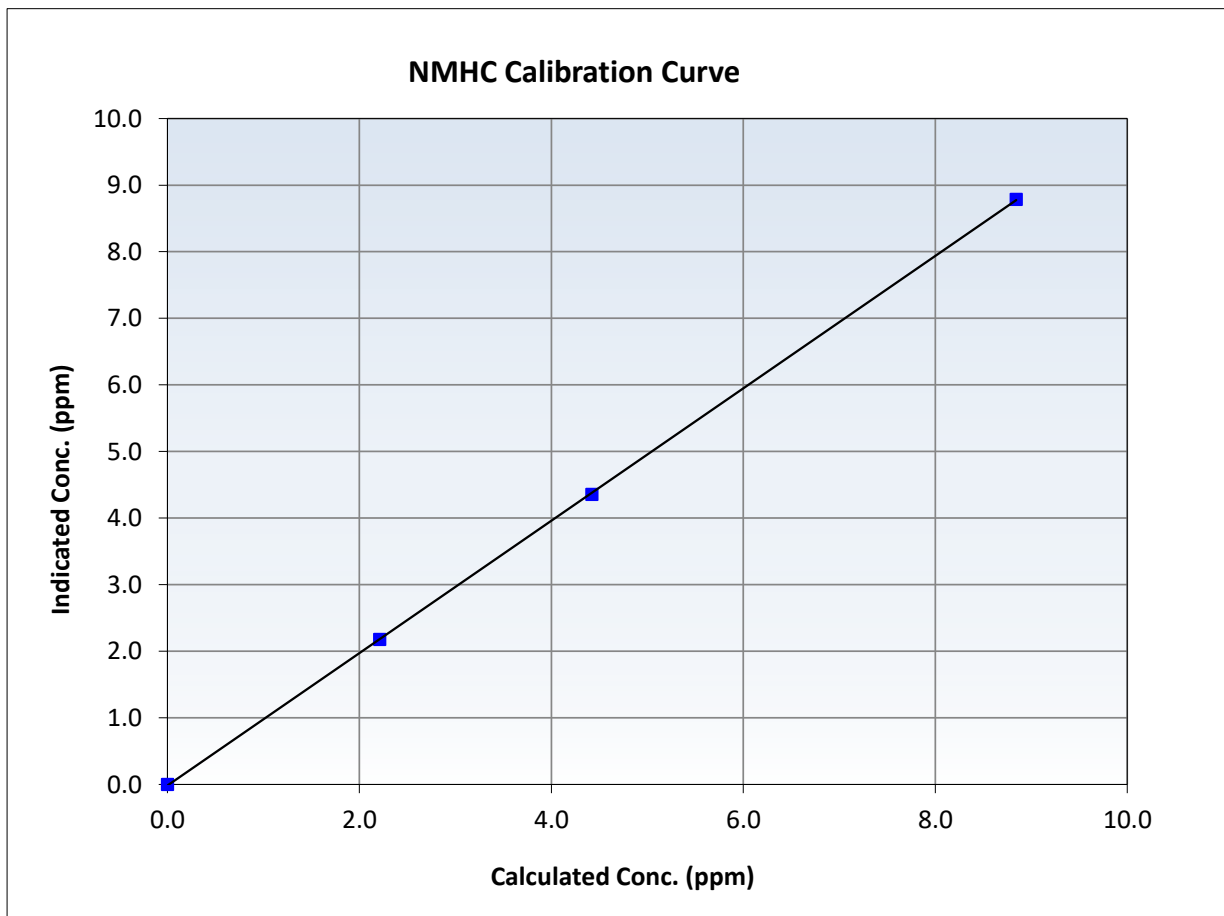
NMHC Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	NA
Station Name:	Mildred Lake	Station Number:	AMS 02
Start Time (MST):	12:00	End Time (MST):	14:27
Analyzer make:	Thermo 55i	Analyzer serial #:	1193585649

Calibration Data

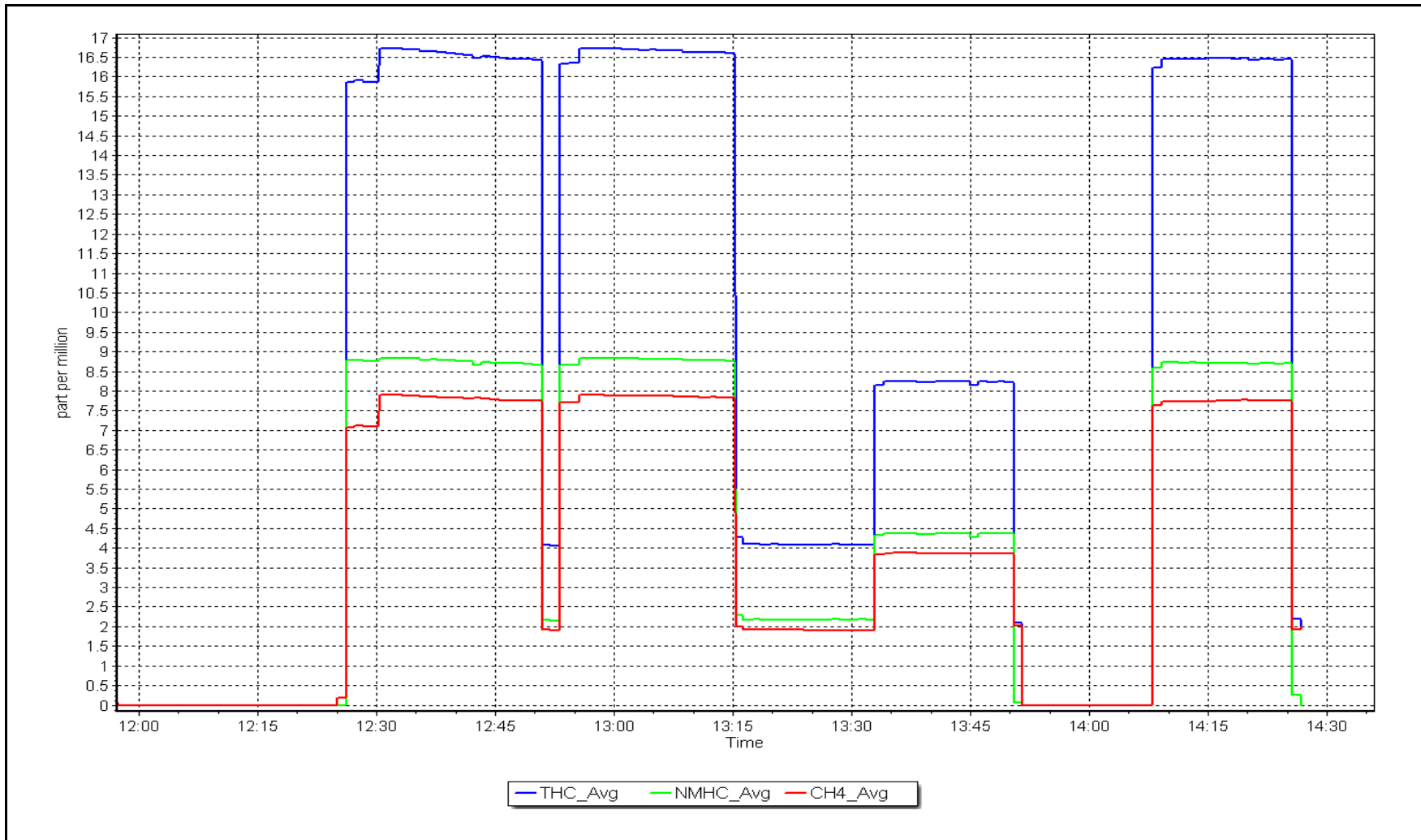
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999974	<i>≥0.995</i>
8.84	8.79	1.0062	Slope	0.994147	<i>0.90 - 1.10</i>
4.42	4.36	1.0154	Intercept	-0.016140	<i>+/-0.5</i>
2.21	2.18	1.0156			



NMHC Calibration Plot

Date: February 27, 2026

Location: Mildred Lake





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS04 BUFFALO VIEWPOINT FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Buffalo Viewpoint	Station number:	AMS 04
Calibration Date:	February 23, 2026	Last Cal Date:	January 22, 2026
Start time (MST):	7:49	End time (MST):	10:53
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.87	ppm	Cal Gas Exp Date:	March 10, 2031
Cal Gas Cylinder #:	CC446753			
Removed Cal Gas Conc:	50.87	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:			Diff between cyl:	
Calibrator Model:	Teledyne API T700		Serial Number:	3808
Zero Air Gen Model:	Teledyne API T701		Serial Number:	362

Analyzer Information

Analyzer make:	Thermo 43i-LTE	Serial Number:	1410661331
Analyzer Range:	0-1000ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.003285	1.000314	Backgd or Offset:	1.9	1.9
Calibration intercept:	0.355708	0.194851	Coeff or Slope:	1.013	1.013

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.1	----
As found High point	4921	78.6	799.7	802.3	0.997
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	802.4	Previous response	802.7	*% change	0.0%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.2	----
High point	4921	78.6	799.7	800.3	0.999
Mid point	4961	39.3	399.8	399.8	1.000
Low point	4980	19.6	199.4	199.9	0.998
As left zero	5000	0.0	0.0	0.1	----
As left span	4921	78.6	799.7	801.0	0.998
Average Correction Factor:					0.999

Notes: No adjustments or maintenance done.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

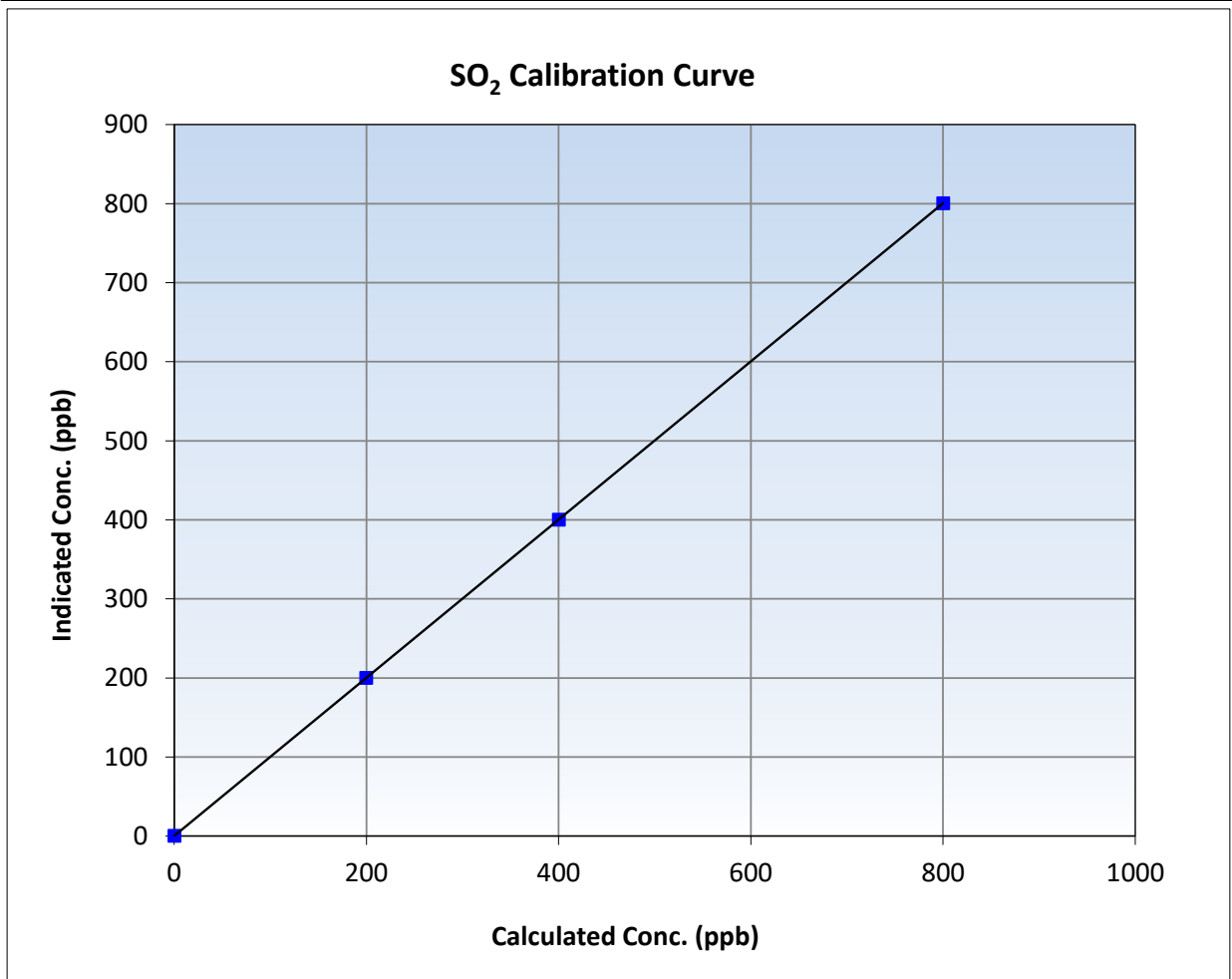
SO₂ Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 22, 2026
Station Name:	Buffalo Viewpoint	Station Number:	AMS 04
Start Time (MST):	7:49	End Time (MST):	10:53
Analyzer make:	Thermo 43i-LTE	Analyzer serial #:	1410661331

Calibration Data

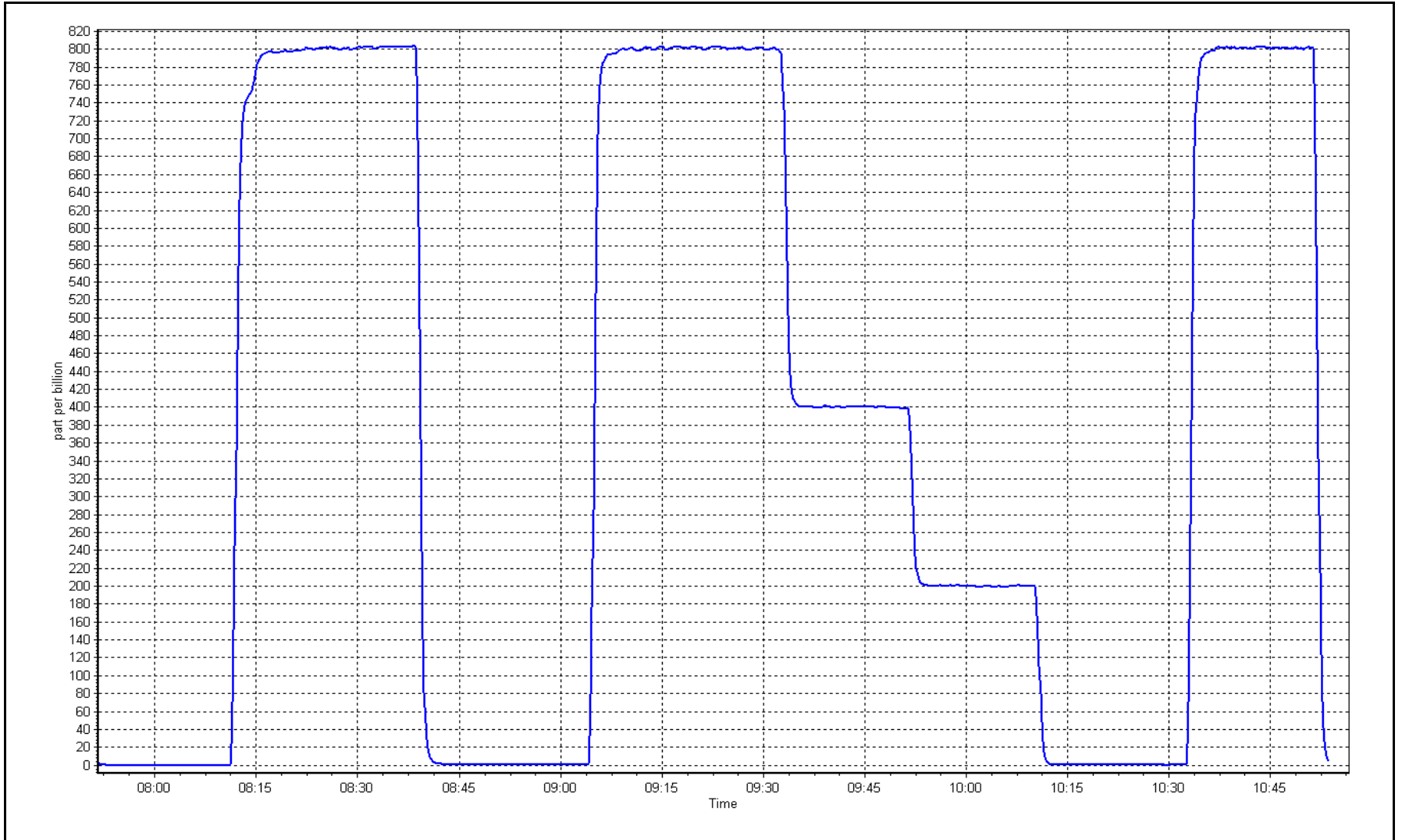
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.2	----	Correlation Coefficient	1.000000	≥0.995
799.7	800.3	0.9993	Slope	1.000314	0.90 - 1.10
399.8	399.8	1.0000	Intercept	0.194851	+/-30
199.4	199.9	0.9976			



SO2 Calibration Plot

Date: February 23, 2026

Location: Buffalo Viewpoint





Wood Buffalo Environmental Association

H₂S Calibration Report

Station Information

Station Name:	Buffalo Viewpoint	Station number:	AMS 04
Calibration Date:	February 12, 2026	Last Cal Date:	January 21, 2026
Start time (MST):	6:42	End time (MST):	10:53
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.80	ppm	Cal Gas Exp Date:	August 28, 2027
Cal Gas Cylinder #:	DT0037528			
Removed Cal Gas Conc:	4.80	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:			Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700		Serial Number:	3808
ZAG Make/Model:	Teledyne API T701H		Serial Number:	362

Analyzer Information

Analyzer make:	Thermo 43i-LTE	Analyzer serial #:	1008841400
Converter make:	Global	Converter serial #:	2022-200
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.002581	0.998862	Backgd or Offset:	1.92	1.92
Calibration intercept:	0.318077	-0.001796	Coeff or Slope:	1.123	1.123

H₂S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4917	83.3	80.0	81.1	0.987
As found Mid point	4958	41.7	40.0	40.6	0.989
As found Low point	4979	20.8	20.0	20.0	1.003
New cylinder response					
Baseline Corr As found:	81.0	Prev response:	80.49	*% change:	0.6%
Baseline Corr 2nd AF pt:	40.5	AF Slope:	1.014296	AF Intercept:	-0.041850
Baseline Corr 3rd AF pt:	19.9	AF Correlation:	0.999981	<i>* = > +/-5% change initiates investigation</i>	

H₂S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.1	----
High point	4917	83.3	80.0	79.9	1.001
Mid point	4958	41.7	40.0	40.0	1.001
Low point	4979	20.8	20.0	19.8	1.009
As left zero	5000	0.0	0.0	0.2	----
As left span	4917	83.3	80.0	79.6	1.005
SO ₂ Scrubber Check	4920	80.0	800.0	0.0	----
Date of last scrubber change:	16-May-23			Ave Corr Factor	1.003
Date of last converter efficiency test:					

Notes: Sox scrubber checked after calibrator zero. No adjustments done.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

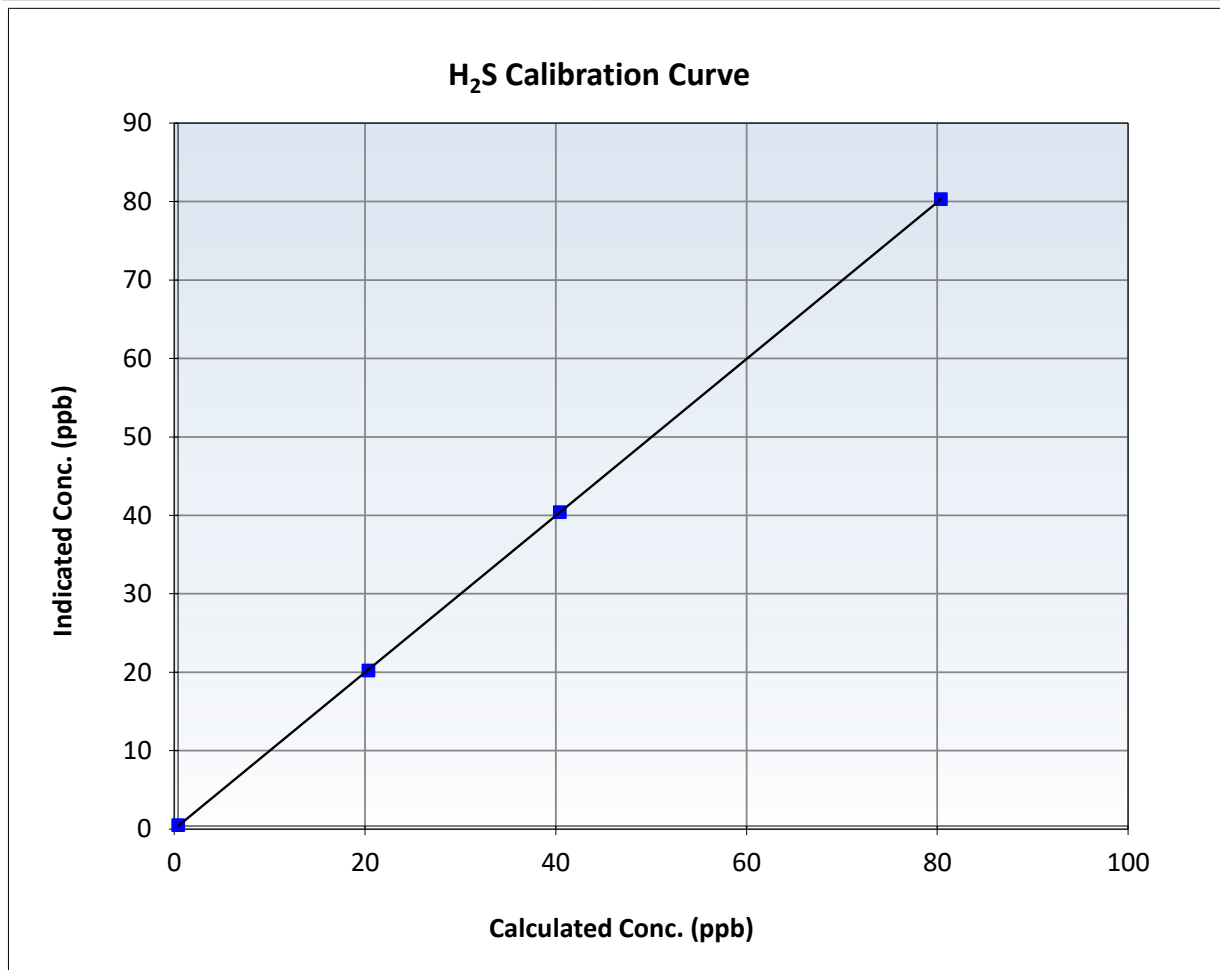
H₂S Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 21, 2026
Station Name:	Buffalo Viewpoint	Station Number:	AMS 04
Start Time (MST):	6:42	End Time (MST):	10:53
Analyzer make:	Thermo 43i-LTE	Analyzer serial #:	1008841400

Calibration Data

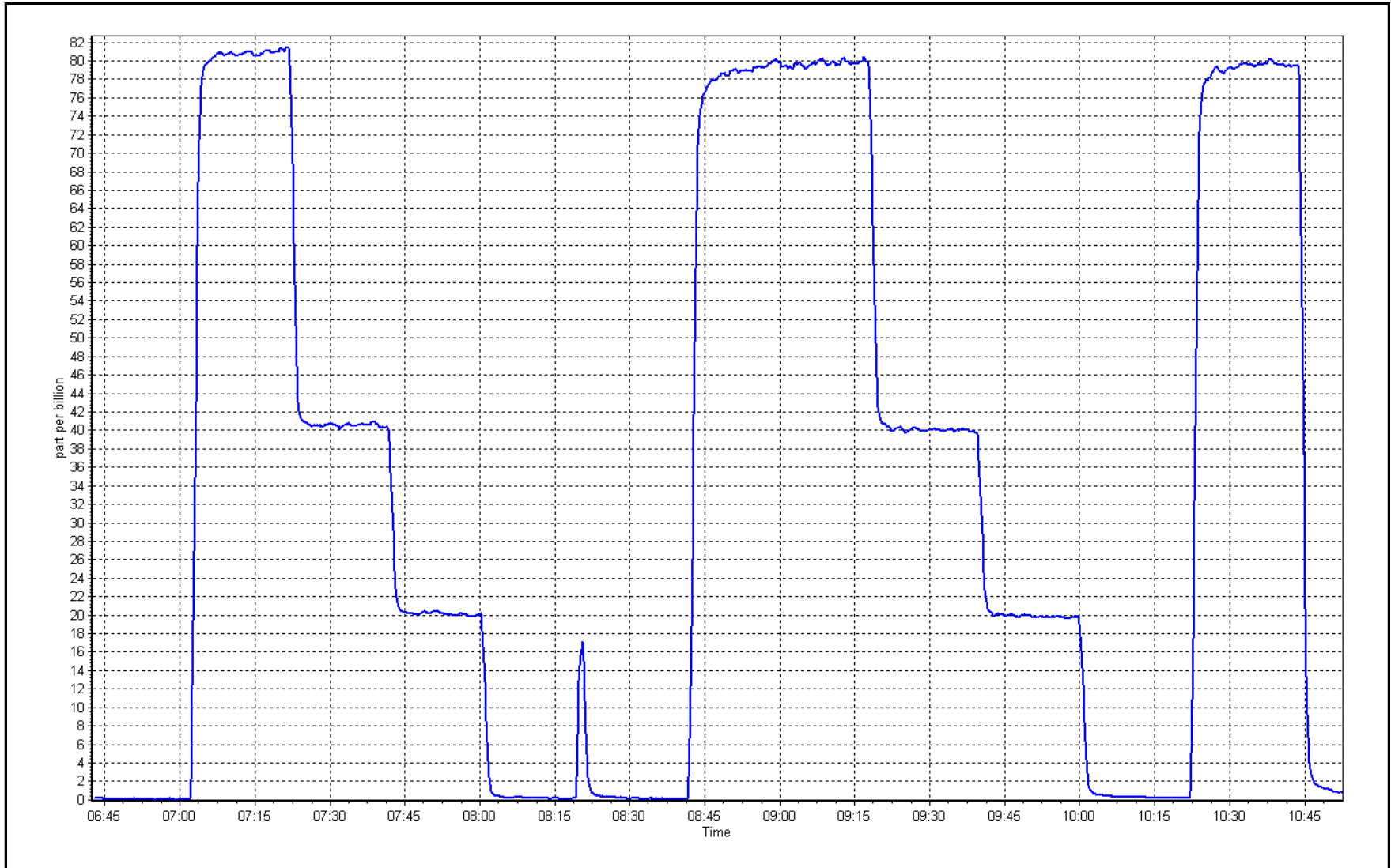
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.1	----	Correlation Coefficient	0.999991	≥0.995
80.0	79.9	1.0008	Slope	0.998862	0.90 - 1.10
40.0	40.0	1.0009	Intercept	-0.001796	+/-3
20.0	19.8	1.0085			



H₂S Calibration Plot

Date: February 12, 2026

Location: Buffalo Viewpoint





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Buffalo Viewpoint	Station number:	AMS 04
Calibration Date:	February 6, 2026	Last Cal Date:	January 28, 2026
Start time (MST):	6:57	End time (MST):	8:08
Reason:	Cylinder Change		

Calibration Standards

Gas Cert Reference:	CC446753	Cal Gas Expiry Date:	March 10, 2031
CH4 Cal Gas Conc.	497.2 ppm	CH4 Equiv Conc.	1058.2 ppm
C3H8 Cal Gas Conc.	204.0 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH4 Conc.	497.2 ppm	CH4 Equiv Conc.	1058.2 ppm
Removed C3H8 Conc.	204.0 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	3808
Zero Air Gen model:	Teledyne API T701	Serial Number:	362

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1180320038
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.25E-04	2.25E-04	NMHC SP Ratio:	4.21E-04	4.21E-04
CH4 Retention time:	11.2	11.2	NMHC Peak Area:	209613	209613
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	78.6	16.64	16.60	1.002
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.60	Prev response	16.63	*% change	-0.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	78.6	16.64	16.54	1.006
Average Correction Factor					1.006

Notes: Hydrogen Cylinder Change



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	78.6	8.82	8.77	1.006
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.77	Prev response	8.81	*% change	-0.4%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	78.6	8.82	8.71	1.012
Average Correction Factor					

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	78.6	7.82	7.83	0.998
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.83	Prev response	7.82	*% change	0.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	78.6	7.82	7.83	0.999
Average Correction Factor					

Calibration Statistics

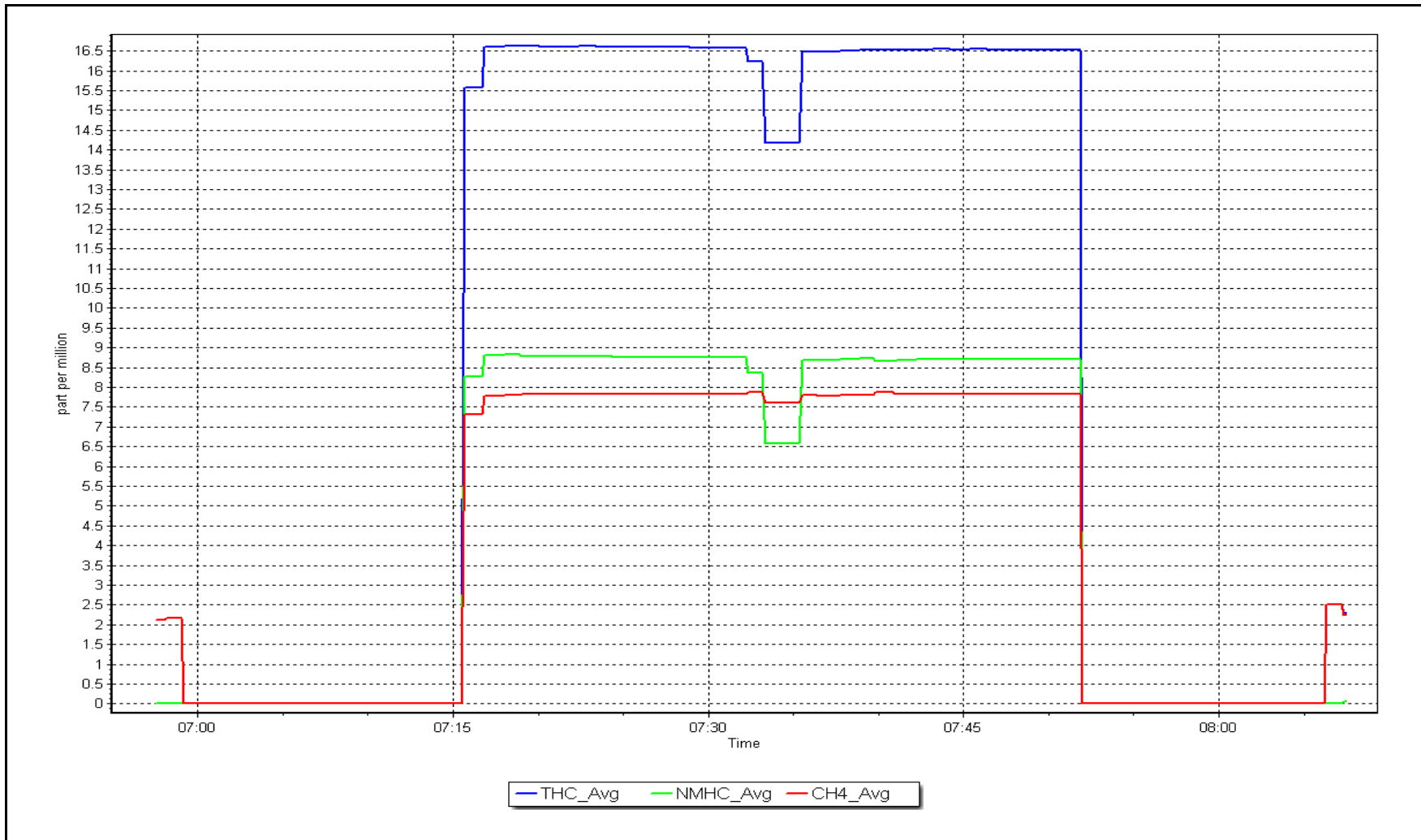
	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.998498	
THC Cal Offset:	0.015263	
CH ₄ Cal Slope:	1.000751	
CH ₄ Cal Offset:	-0.002704	
NMHC Cal Slope:	0.996760	
NMHC Cal Offset:	0.017967	

Calibration Performed By: Melissa Lemay

NMHC Calibration Plot

Date: February 6, 2026

Location: Buffalo Viewpoint





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Buffalo Viewpoint	Station number:	AMS 04
Calibration Date:	February 23, 2026	Last Cal Date:	January 28, 2026
Start time (MST):	7:50	End time (MST):	10:54
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC446753	Cal Gas Expiry Date:	March 10, 2031
CH4 Cal Gas Conc.	497.2 ppm	CH4 Equiv Conc.	1058.2 ppm
C3H8 Cal Gas Conc.	204.0 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH4 Conc.	497.2 ppm	CH4 Equiv Conc.	1058.2 ppm
Removed C3H8 Conc.	204.0 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	3808
Zero Air Gen model:	Teledyne API T701	Serial Number:	362

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1180320038
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.25E-04	2.27E-04	NMHC SP Ratio: 4.21E-04	4.31E-04
CH4 Retention time:	11.2	11.2	NMHC Peak Area: 209613	204629
Zero Chromatogram:	OFF	OFF	Flat Baseline: OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	78.6	16.64	16.42	1.013
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.42	Prev response	16.63	*% change	-1.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	78.6	16.64	16.66	0.999
Mid point	4961	39.3	8.32	8.34	0.997
Low point	4980	19.6	4.15	4.14	1.003
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	78.6	16.64	16.68	0.997
Average Correction Factor					1.000

Notes: No Maintenance done. Span adjusted.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	78.6	8.82	8.64	1.021
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.64	Prev response	8.81	*% change	-2.0%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	78.6	8.82	8.81	1.002
Mid point	4961	39.3	4.41	4.42	0.997
Low point	4980	19.6	2.20	2.20	0.999
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	78.6	8.82	8.83	0.999
Average Correction Factor					0.999

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	78.6	7.82	7.78	1.005
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.78	Prev response	7.82	*% change	-0.5%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	78.6	7.82	7.85	0.996
Mid point	4961	39.3	3.91	3.93	0.995
Low point	4980	19.6	1.95	1.94	1.007
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	78.6	7.82	7.85	0.995
Average Correction Factor					1.000

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.998498	1.001727
THC Cal Offset:	0.015263	-0.003733
CH ₄ Cal Slope:	1.000751	1.004889
CH ₄ Cal Offset:	-0.002704	-0.008099
NMHC Cal Slope:	0.996760	0.998381
NMHC Cal Offset:	0.017967	0.005964

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

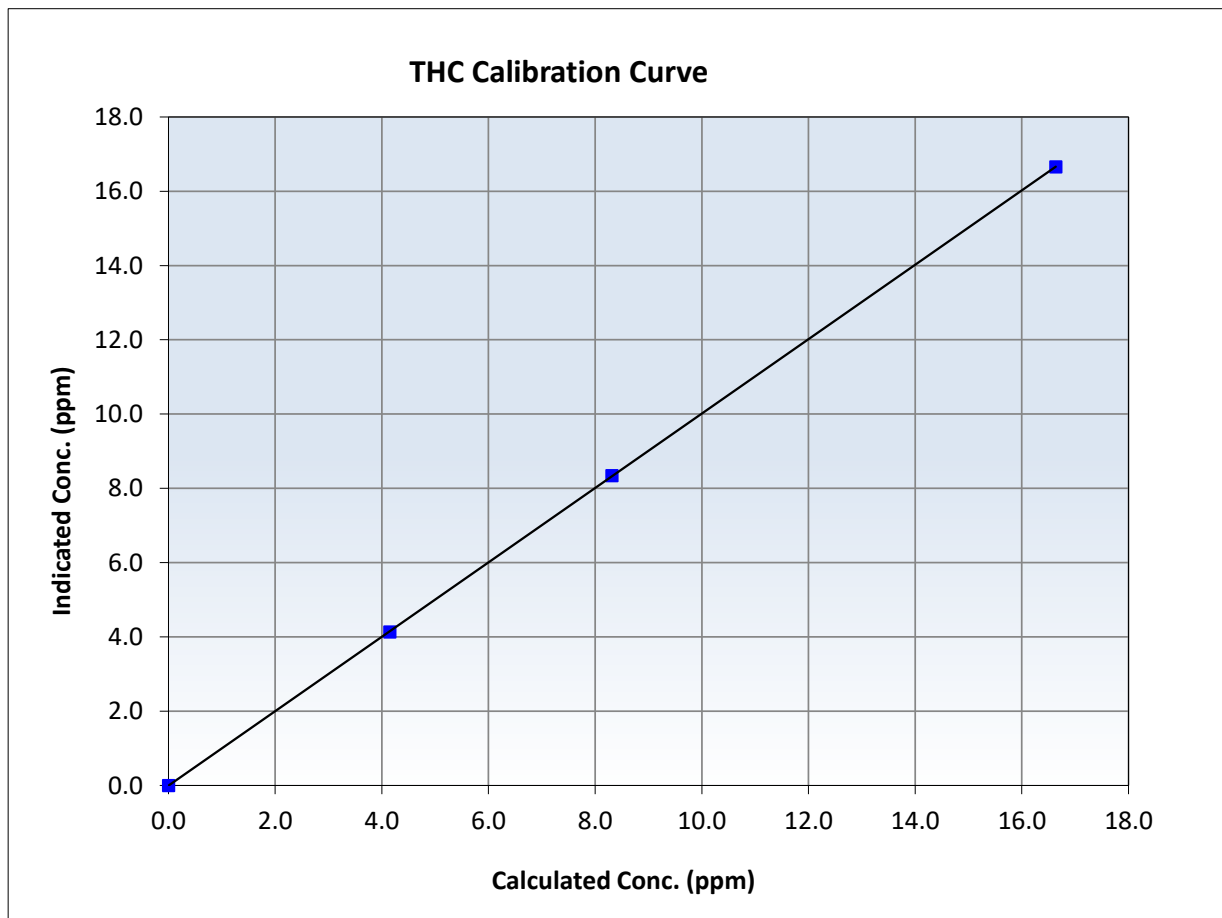
THC Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 28, 2026
Station Name:	Buffalo Viewpoint	Station Number:	AMS 04
Start Time (MST):	7:50	End Time (MST):	10:54
Analyzer make:	Thermo 55i	Analyzer serial #:	1180320038

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999996	<i>≥0.995</i>
16.64	16.66	0.9988	Slope	1.001727	<i>0.90 - 1.10</i>
8.32	8.34	0.9968	Intercept	-0.003733	<i>+/-0.5</i>
4.15	4.14	1.0030			





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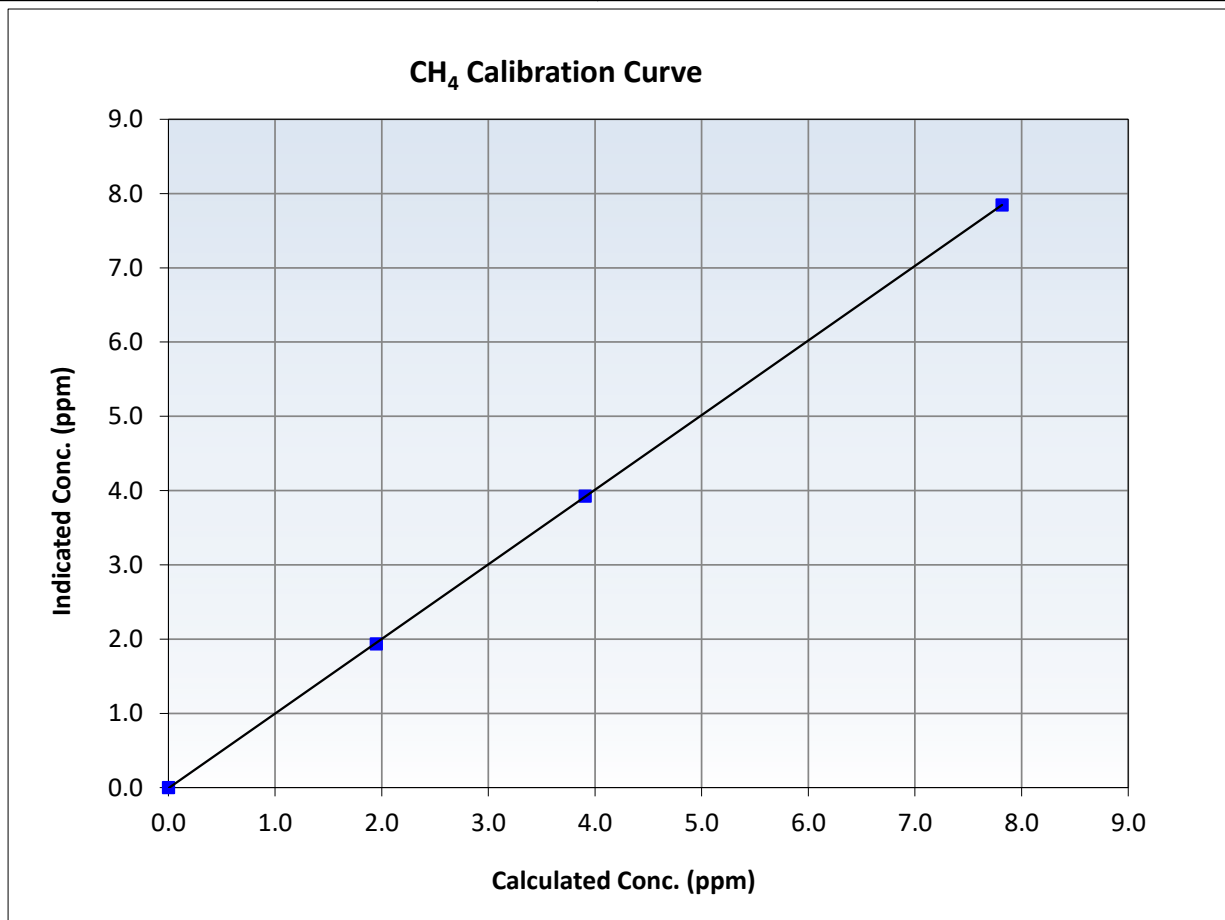
CH₄ Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 28, 2026
Station Name:	Buffalo Viewpoint	Station Number:	AMS 04
Start Time (MST):	7:50	End Time (MST):	10:54
Analyzer make:	Thermo 55i	Analyzer serial #:	1180320038

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999989	<i>≥0.995</i>
7.82	7.85	0.9961	Slope	1.004889	<i>0.90 - 1.10</i>
3.91	3.93	0.9954	Intercept	-0.008099	<i>+/-0.5</i>
1.95	1.94	1.0073			





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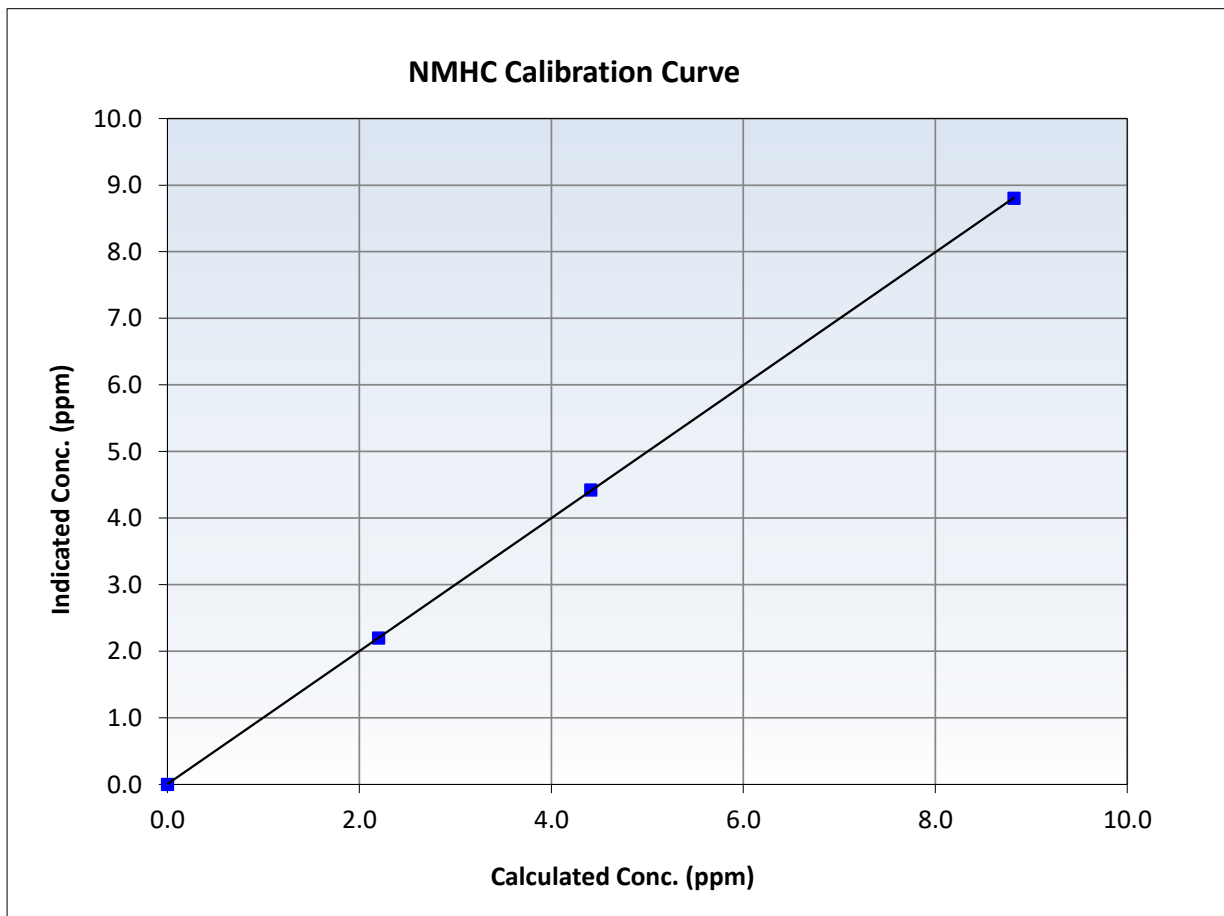
NMHC Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 28, 2026
Station Name:	Buffalo Viewpoint	Station Number:	AMS 04
Start Time (MST):	7:50	End Time (MST):	10:54
Analyzer make:	Thermo 55i	Analyzer serial #:	1180320038

Calibration Data

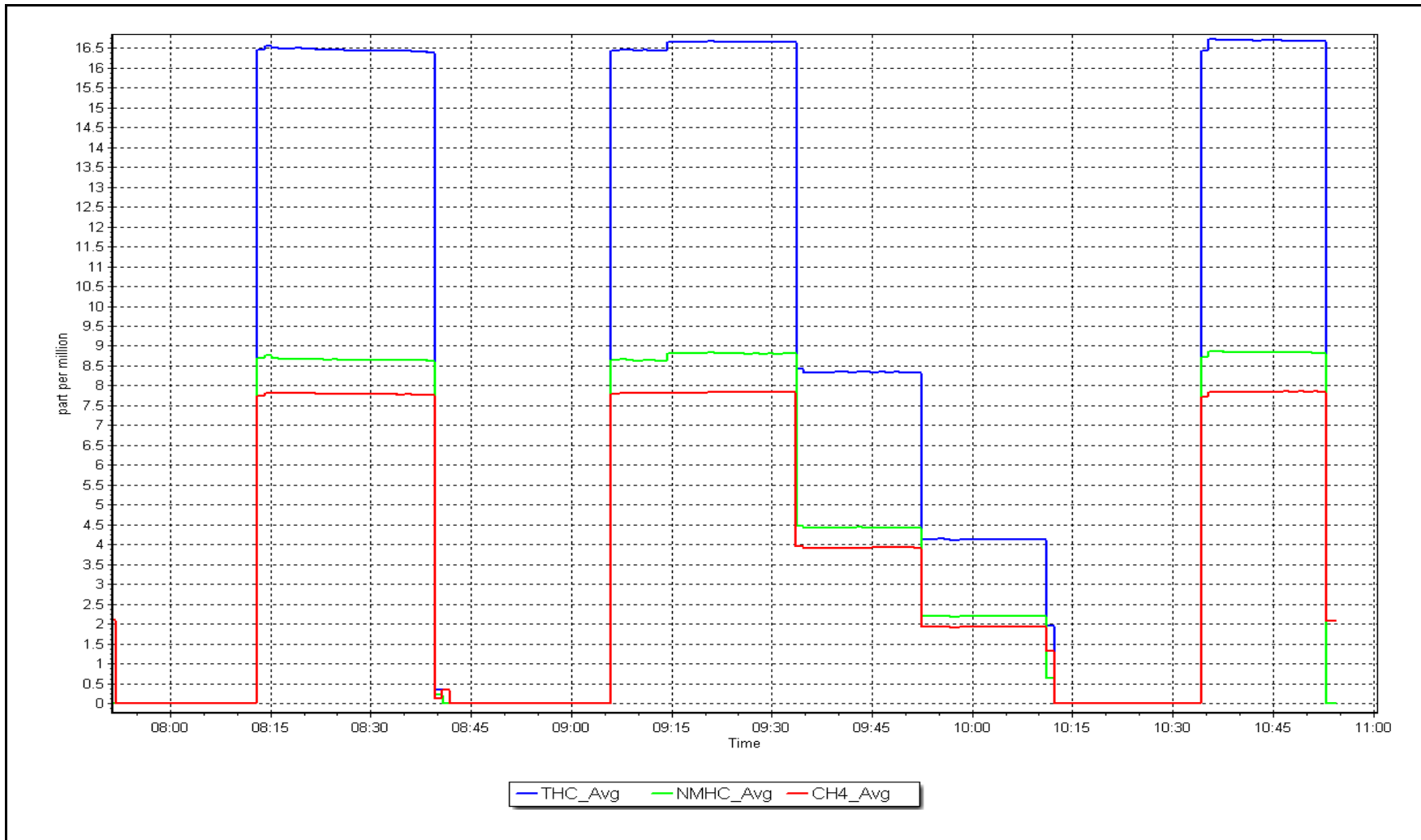
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999994	<i>≥0.995</i>
8.82	8.81	1.0017	Slope	0.998381	<i>0.90 - 1.10</i>
4.41	4.42	0.9973	Intercept	0.005964	<i>+/-0.5</i>
2.20	2.20	0.9992			



NMHC Calibration Plot

Date: February 23, 2026

Location: Buffalo Viewpoint





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Buffalo Viewpoint
 Station number: AMS 04
 Calibration Date: February 5, 2026
 Last Cal Date: January 12, 2026
 Start time (MST): 6:45
 End time (MST): 9:58
 Reason: Removal

Calibration Standards

NO Gas Cylinder #: CC324979
 NOX Cal Gas Conc: 48.90 ppm
 Removed Cylinder #:
 Removed Gas NOX Conc: 48.90 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701
 Cal Gas Expiry Date: November 3, 2032
 NO Cal Gas Conc: 48.80 ppm
 Removed Gas Exp Date:
 Removed Gas NO Conc: 48.80 ppm
 NO gas Diff:
 Serial Number: 3808
 Serial Number: 362

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.4	0.5	-0.1	----	----
AF High point	4918	81.8	800.0	798.4	1.6	743.6	741.5	2.1	1.0765	1.0775
AF Mid point	4959	40.9	400.0	399.2	0.8	370.6	367.5	3.1	1.0805	1.0877
AF Low point	4980	20.4	199.5	199.1	0.4	182.2	179.4	2.8	1.0973	1.1128
New cyl resp										
Previous Response	NO _x = 799.5 ppb	NO = 800.3 ppb				<i>* = > +/-5% change initiates investigation</i>		*Percent Change		NO _x = -7.6%
Baseline Corr 1st pt	NO _x = 743.2 ppb	NO = 741.0 ppb				<u>As Found Statistics</u>		*Percent Change		NO = -8.0%
Baseline Corr 2nd pt	NO _x = 370.2 ppb	NO = 367.0 ppb				As found	NO _x r ² : 0.999975	Nx SI: 0.930272		Nx Int: -1.289
Baseline Corr 3rd pt	NO _x = 181.8 ppb	NO = 178.9 ppb				As found	NO r ² : 0.999923	NO SI: 0.930134		NO Int: -2.550
						As found	NO ₂ r ² : 0.999977	NO ₂ SI: 0.998717		NO ₂ Int: 0.564

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero	----	----	0.0	-0.1	----	----
As found high GPT point	735.5	383.5	353.6	353.2	1.0012	99.9%
As found mid GPT point	735.5	577.5	159.6	160.6	0.9940	100.6%
As found low GPT point	735.5	577.5	159.6	160.6	0.9940	100.6%



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Teledyne API T200
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 721

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.145	1.145	NO bkgnd or offset:	-0.6	-0.6
NOX coeff or slope:	1.136	1.136	NOX bkgnd or offset:	-0.7	-0.7
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	4.4	4.4

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	1.001139	
NO _x Cal Offset:	-1.433856	
NO Cal Slope:	1.005783	
NO Cal Offset:	-2.714214	
NO ₂ Cal Slope:	0.996850	
NO ₂ Cal Offset:	0.280458	

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
-----------	---------------------------	-----------------------------	-----------------------------------------------------	----------------------------------------	-----------------------------------------------------	----------------------------------------------------	---------------------------------------	----------------------------------------------------	-----------------------------------------------------------------------	----------------------------------------------------------

Cal zero
 High point
 Mid point
 Low point
 As left zero
 As left span

Average Correction Factor

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
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Cal zero
 High GPT point
 Mid GPT point
 Low GPT point

Average Correction Factor

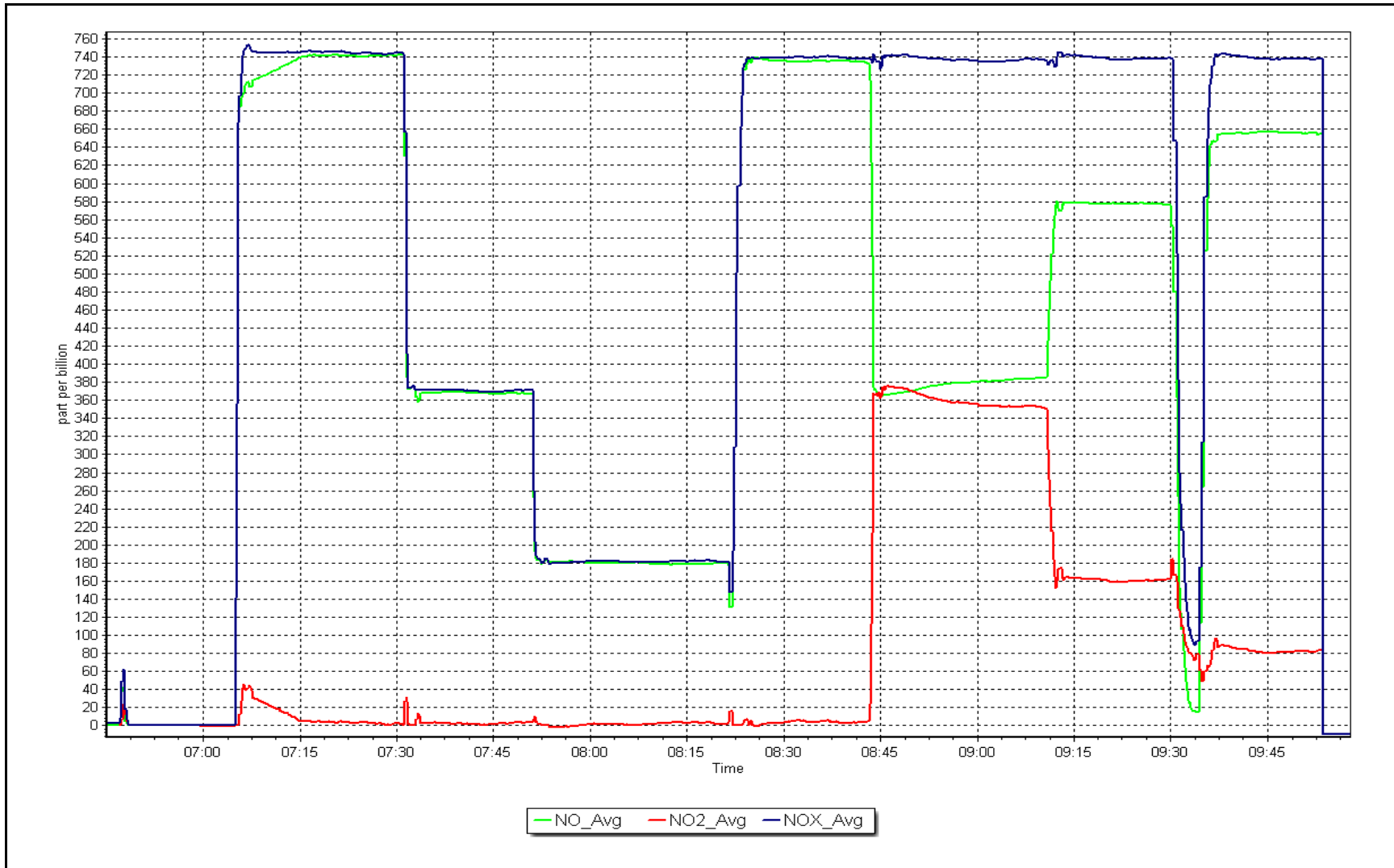
Notes: Removal as High point dropping every month.

Calibration Performed By: Melissa Lemay

NO_x Calibration Plot

Date: February 5, 2026

Location: Buffalo Viewpoint





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Buffalo Viewpoint
 Station number: AMS 04
 Calibration Date: February 6, 2026
 Last Cal Date:
 Start time (MST): 8:07
 End time (MST): 11:43
 Reason: Install

Calibration Standards

NO Gas Cylinder #: CC324979
 NOX Cal Gas Conc: 48.90 ppm
 Removed Cylinder #:
 Removed Gas NOX Conc: 48.90 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701
 Cal Gas Expiry Date: November 3, 2032
 NO Cal Gas Conc: 48.80 ppm
 Removed Gas Exp Date:
 Removed Gas NO Conc: 48.80 ppm
 NO gas Diff:
 Serial Number: 3808
 Serial Number: 362

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero										
AF High point										
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = NA	ppb	NO = NA	ppb					*Percent Change	NO _x = NA
Baseline Corr 1st pt	NO _x = NA	ppb	NO = NA	ppb					*Percent Change	NO = NA
Baseline Corr 2nd pt	NO _x = NA	ppb	NO = NA	ppb						Nx SI:
Baseline Corr 3rd pt	NO _x = NA	ppb	NO = NA	ppb						NO Int:
										NO ₂ Int:

* = > +/-5% change initiates investigation

As Found Statistics

As found NO_x r²:
 As found NO r²:
 As found NO₂ r²:
 Nx SI:
 NO SI:
 NO₂ SI:

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1218153357

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:		0.997237
NO _x Cal Offset:		0.006087
NO Cal Slope:		0.997808
NO Cal Offset:		-0.854756
NO ₂ Cal Slope:		1.001133
NO ₂ Cal Offset:		-0.865835

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.996		NO bkgnd or offset:	6.7	
NOX coeff or slope:	0.992		NOX bkgnd or offset:	6.7	
NO2 coeff or slope:	1.000		Reaction cell Press:	240.7	

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOx concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOx concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOx Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.0	0.1	0.0	----	----
High point	4918	81.8	800.0	798.4	1.6	797.7	796.1	1.7	1.0029	1.0029
Mid point	4959	40.9	400.0	399.2	0.8	399.3	397.5	1.8	1.0018	1.0043
Low point	4980	20.4	199.5	199.1	0.4	198.7	196.5	2.2	1.0040	1.0132
As left zero	5000	0.0	0.0	0.2	-0.2	0.2	0.2	0.0	----	----
As left span	4918	81.8	800.0	404.5	800.0	795.3	404.5	390.9	1.0060	1.0000
Average Correction Factor									1.0029	1.0068

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.0	----	----
High GPT point	792.9	399.6	394.9	394.8	1.0003	100.0%
Mid GPT point	792.9	614.5	180.0	179.3	1.0041	99.6%
Low GPT point	792.9	703.2	91.3	89.5	1.0205	98.0%
Average Correction Factor					1.0083	99.2%

Notes: Install due to removed Nox not working properly. Zero and Span adjusted. Due to drifting during the GPT the 2nd NO ref point used.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

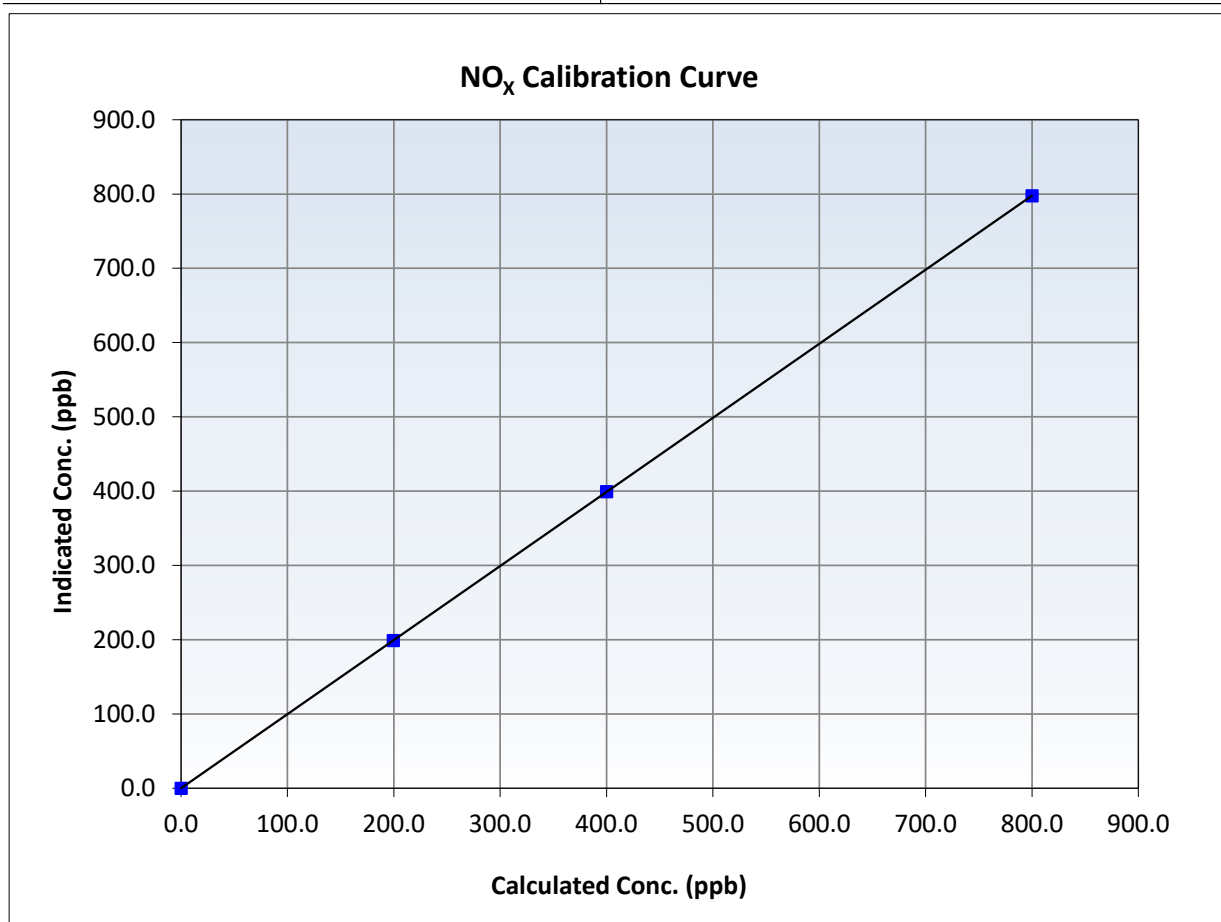
NO_x Calibration Summary

Station Information

Calibration Date:	February 6, 2026	Previous Calibration:	
Station Name:	Buffalo Viewpoint	Station Number:	AMS 04
Start Time (MST):	8:07	End Time (MST):	11:43
Analyzer make:	Thermo 42i	Analyzer serial #:	1218153357

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999999	≥0.995
800.0	797.7	1.0029	Slope	0.997237	0.90 - 1.10
400.0	399.3	1.0018	Intercept	0.006087	+/-20
199.5	198.7	1.0040			





Wood Buffalo Environmental Association

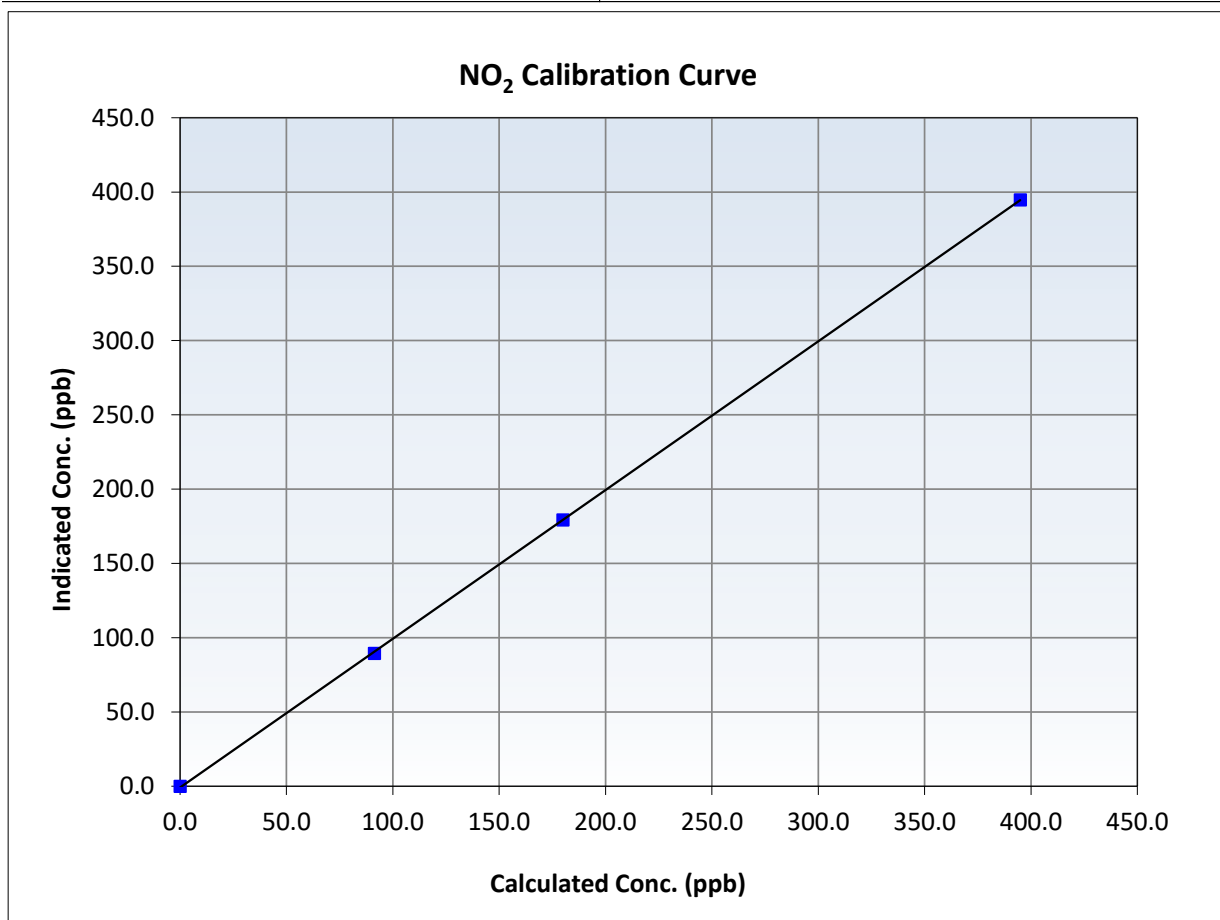
NO₂ Calibration Summary

Station Information

Calibration Date:	February 6, 2026	Previous Calibration:	
Station Name:	Buffalo Viewpoint	Station Number:	AMS 04
Start Time (MST):	8:07	End Time (MST):	11:43
Analyzer make:	Thermo 42i	Analyzer serial #:	1218153357

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999977	<i>≥0.995</i>
394.9	394.8	1.0003	Slope	1.001133	<i>0.90 - 1.10</i>
180.0	179.3	1.0041	Intercept	-0.865835	<i>+/-20</i>
91.3	89.5	1.0205			





Wood Buffalo Environmental Association

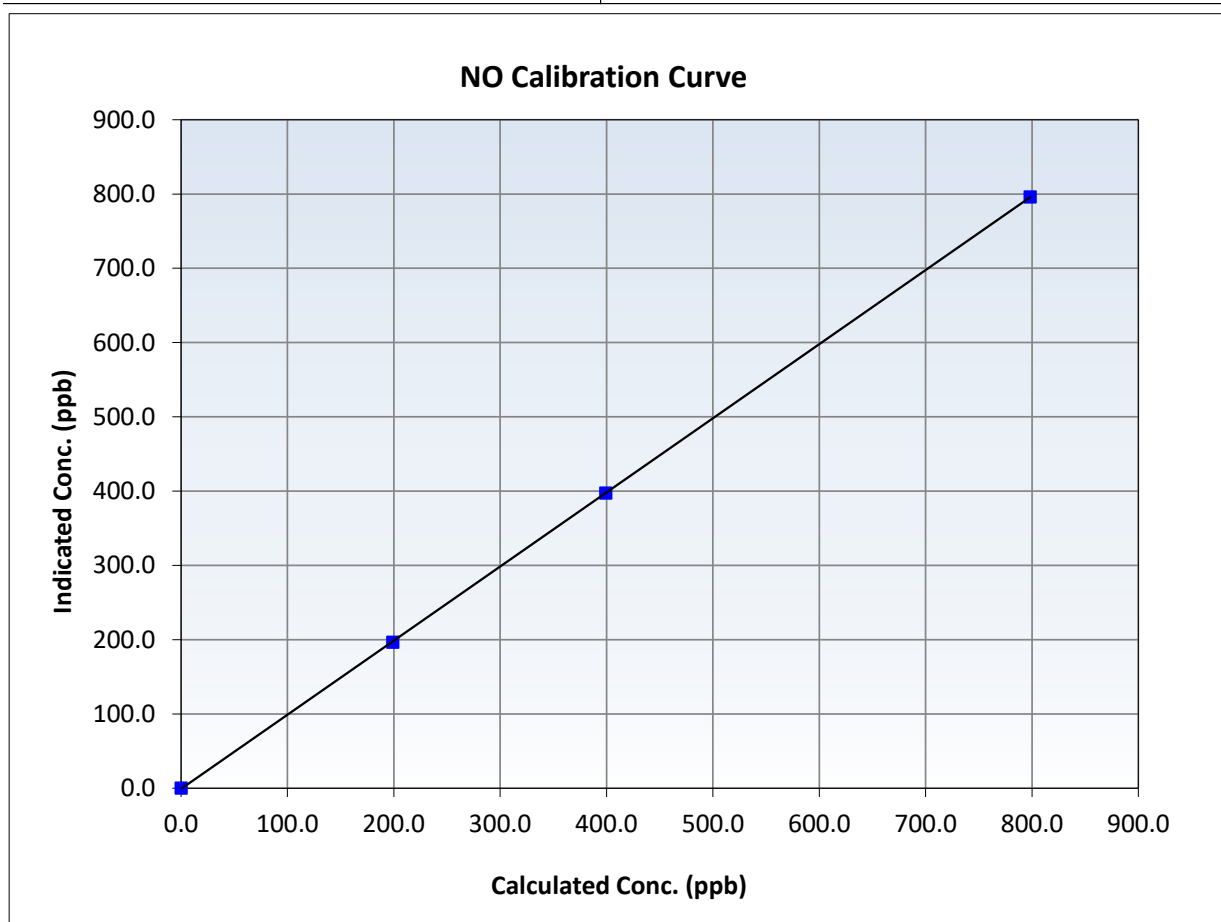
NO Calibration Summary

Station Information

Calibration Date:	February 6, 2026	Previous Calibration:	
Station Name:	Buffalo Viewpoint	Station Number:	AMS 04
Start Time (MST):	8:07	End Time (MST):	11:43
Analyzer make:	Thermo 42i	Analyzer serial #:	1218153357

Calibration Data

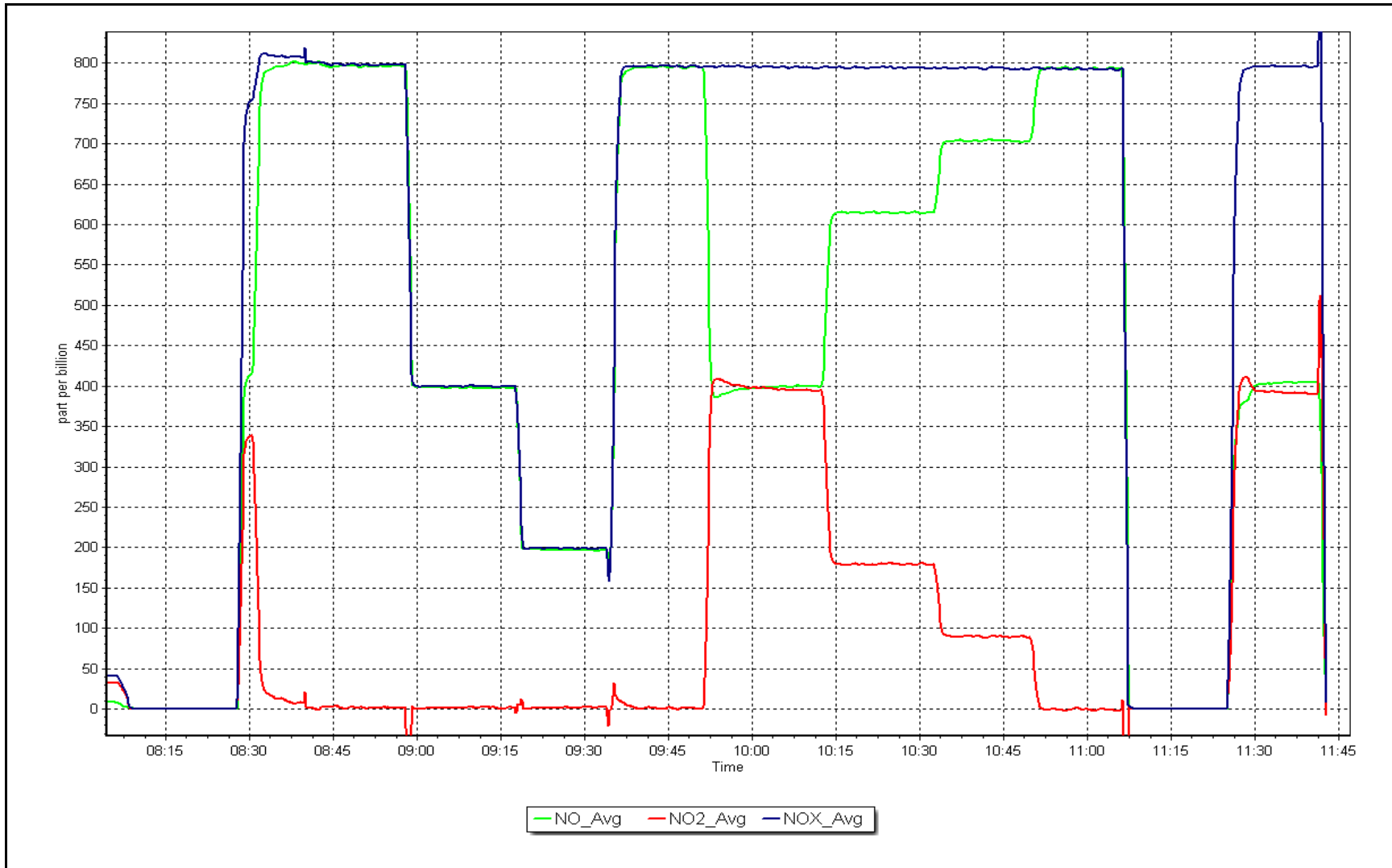
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999992	<i>≥0.995</i>
798.4	796.1	1.0029	Slope	0.997808	<i>0.90 - 1.10</i>
399.2	397.5	1.0043	Intercept	-0.854756	<i>+/-20</i>
199.1	196.5	1.0132			



NO_x Calibration Plot

Date: February 6, 2026

Location: Buffalo Viewpoint





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Buffalo Viewpoint	Station number:	AMS 04
Calibration Date:	February 13, 2026	Last Cal Date:	January 20, 2026
Start time (MST):	6:48	End time (MST):	9:33
Reason:	Routine		

Calibration Standards

O3 generation mode:	Photometer	Serial Number:	3808
Calibrator Make/Model:	Teledyne API T700	Serial Number:	362
ZAG Make/Model:	Teledyne API T701		

Analyzer Information

Analyzer make:	Teledyne API T400	Analyzer serial #:	2961
Analyzer Range	0 - 500 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.003457	1.000114	Backgd or Offset:	-1.0	-0.2
Calibration intercept:	0.920000	-0.220000	Coeff or Slope:	1.020	1.008

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.8	----
As found High point	5000	1071.2	400.0	404.4	0.991
As found Mid point					
As found Low point					
Baseline Corr As found:	403.6	Previous response	402.3	*% change	0.3%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.4	----
High point	5000	1072.6	400.0	399.8	1.001
Mid point	5000	864.1	200.0	199.7	1.002
Low point	5000	742.1	100.0	100.1	0.999
As left zero	5000	0.0	0.0	-0.4	----
As left span	5000	1072.4	400.0	399.4	1.002
Average Correction Factor					1.000

Notes: No Maintenance done. Zero and Span adjusted.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

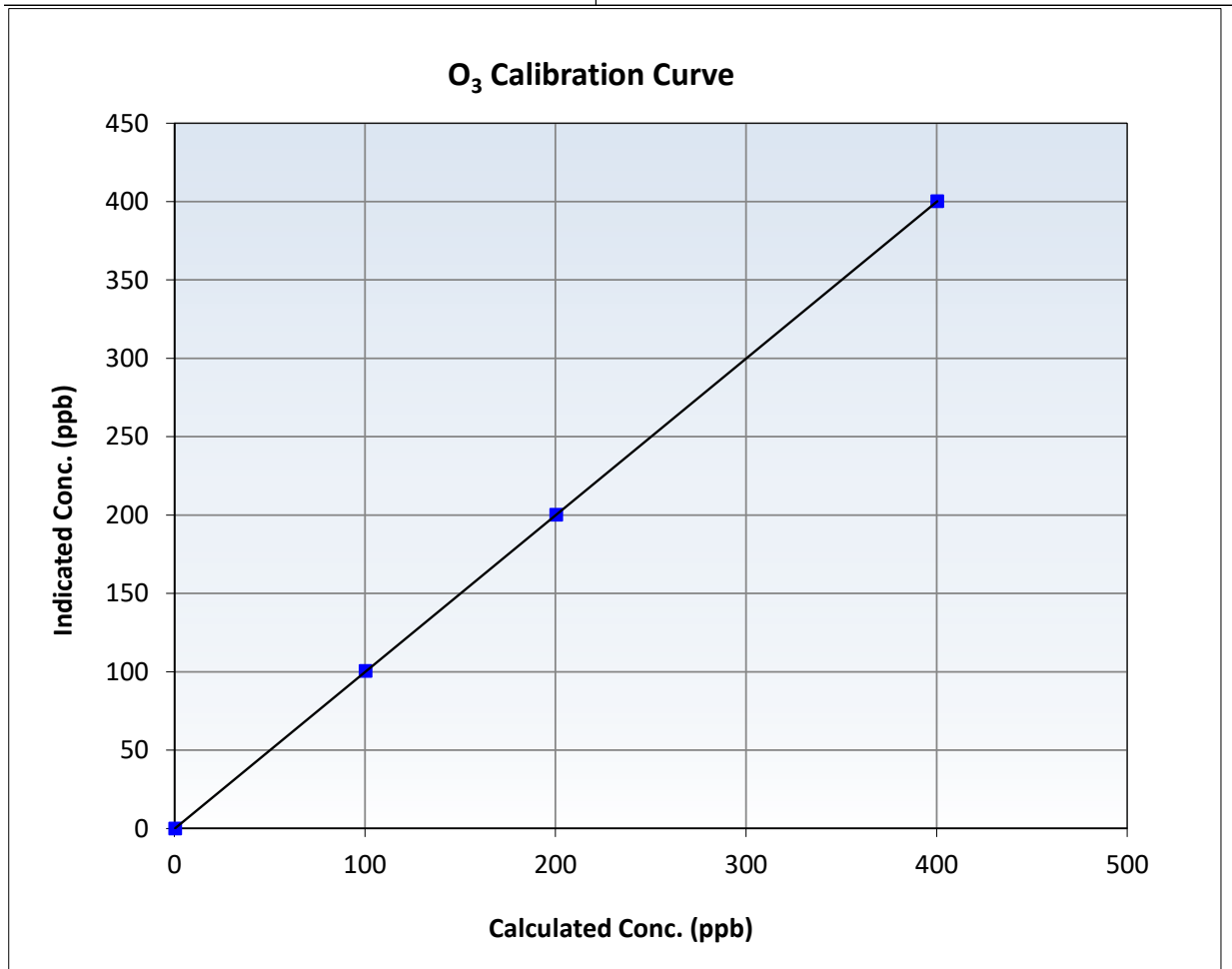
O₃ Calibration Summary

Station Information

Calibration Date:	February 13, 2026	Previous Calibration:	January 20, 2026
Station Name:	Buffalo Viewpoint	Station Number:	AMS 04
Start Time (MST):	6:48	End Time (MST):	9:33
Analyzer make:	Teledyne API T400	Analyzer serial #:	2961

Calibration Data

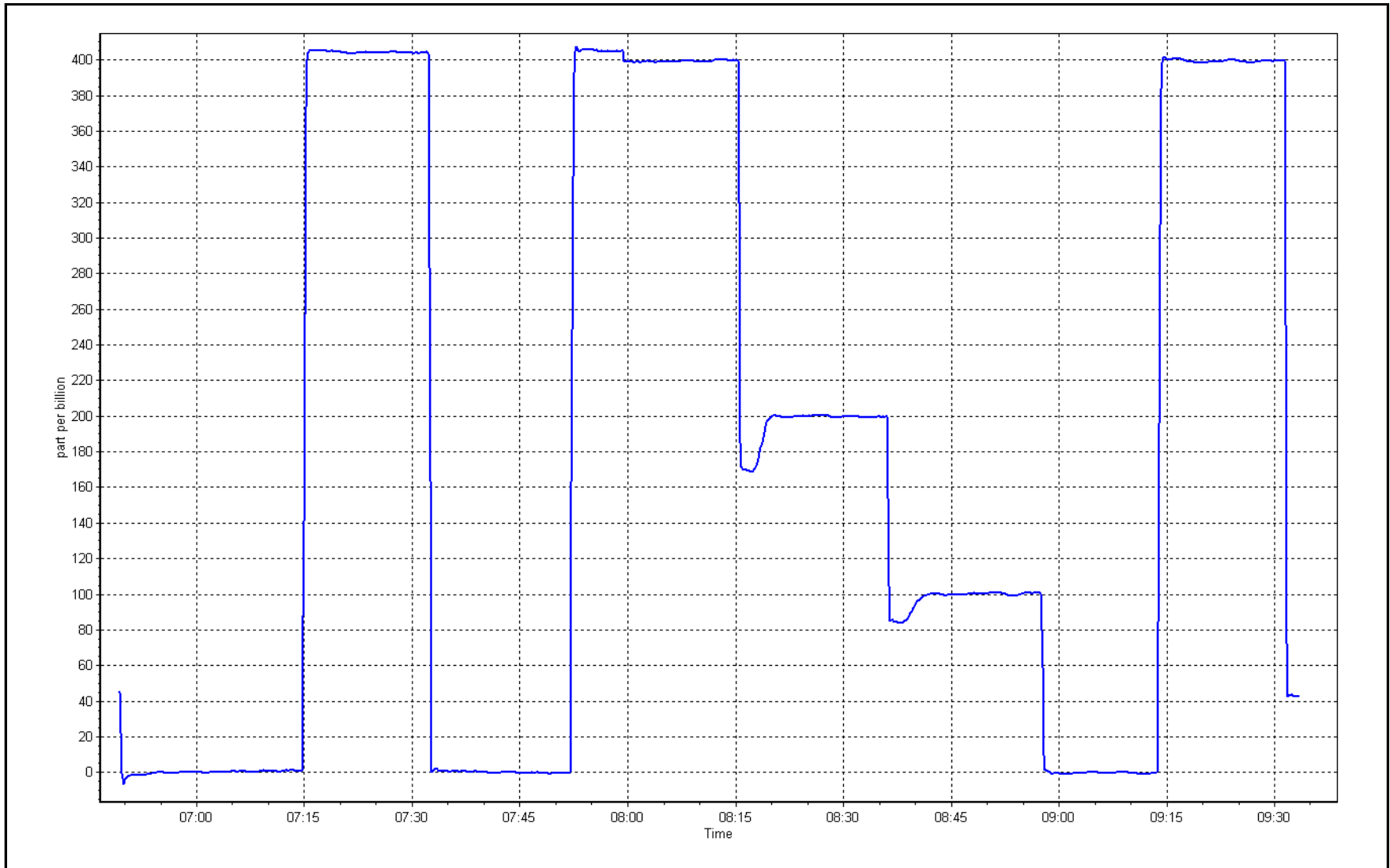
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.4	----	Correlation Coefficient	0.999998	≥0.995
400.0	399.8	1.0005	Slope	1.000114	0.90 - 1.10
200.0	199.7	1.0015	Intercept	-0.220000	+/- 5
100.0	100.1	0.9990			



O₃ Calibration Plot

Date: February 13, 2026

Location: Buffalo Viewpoint





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Buffalo Viewpoint Station number: AMS 04
 Calibration Date: February 12, 2026 Last Cal Date: January 22, 2026
 Start time (MST): 11:12 End time (MST): 11:46

Analyzer Make: Teledyne API T640 S/N: 321
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388753
 Temp/RH standard: Alicat FP-25BT S/N: 388753

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	2.2	2.0	2.2	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	723.8	725.8	723.8	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	4.97	5.02	4.97	<input type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	37	----	37	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	2.8	PM w/ HEPA: _____	0.0	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: **10.9** Expiry Date: 30-Jan-27
 Lot No.: 100128-050-051

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test				<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: December 18, 2025
 Date Disposable Filter Changed: December 18, 2025

Post- maintenance Zero Verification: PM w/ HEPA: _____ <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: December 18, 2025
 Date RH/T Sensor Cleaned: December 18, 2025

No adjustments done.

Notes:

Calibration by: Melissa Lemay



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS05 MANNIX FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Mannix	Station number:	AMS 05
Calibration Date:	February 19, 2026	Last Cal Date:	January 16, 2026
Start time (MST):	8:55	End time (MST):	11:57
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.06	ppm	Cal Gas Exp Date:	October 22, 2032
Cal Gas Cylinder #:	CC308040			
Removed Cal Gas Conc:	50.06	ppm	Rem Gas Exp Date:	October 22, 2032
Removed Gas Cyl #:			Diff between cyl:	
Calibrator Model:	API T700		Serial Number:	5470
Zero Air Gen Model:	API T701		Serial Number:	361

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	1008841399
Analyzer Range:	1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.000152	0.998551	Backgd or Offset:	11.2	10.6
Calibration intercept:	-0.876794	-1.216163	Coeff or Slope:	0.933	0.933

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.5	----
As found High point	4920	79.9	800.0	796.7	1.003
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	797.2	Previous response	799.2	*% change	-0.3%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.4	----
High point	4920	79.9	800.0	798.2	1.002
Mid point	4960	40.0	400.5	398.5	1.005
Low point	4980	20.0	200.2	196.7	1.018
As left zero	5000	0.0	0.0	0.6	----
As left span	4920	79.9	800.0	798.1	1.002
Average Correction Factor:					1.008

Notes: Zero Adjusted. No maintenance done.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

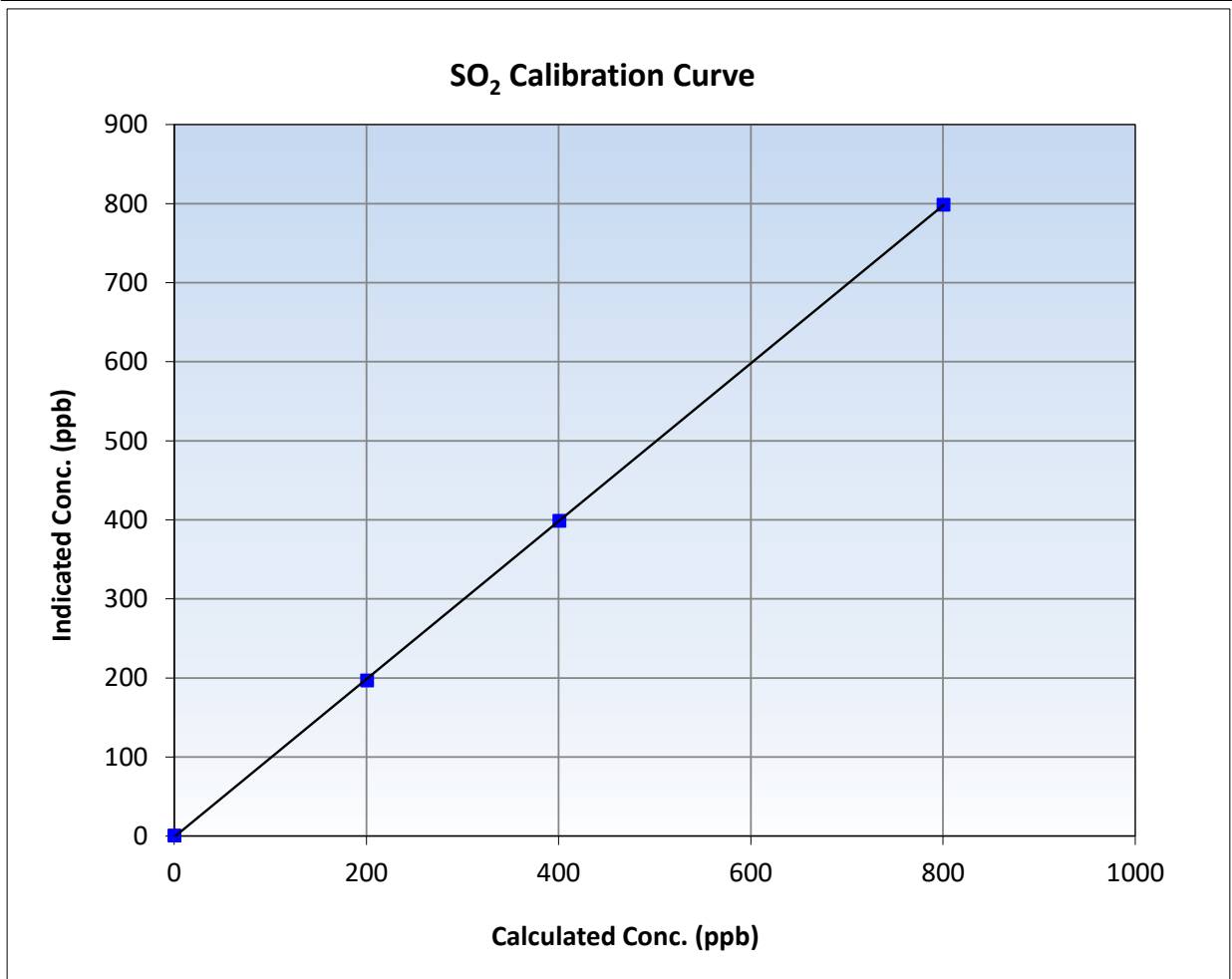
SO₂ Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 16, 2026
Station Name:	Mannix	Station Number:	AMS 05
Start Time (MST):	8:55	End Time (MST):	11:57
Analyzer make:	Thermo 43i	Analyzer serial #:	1008841399

Calibration Data

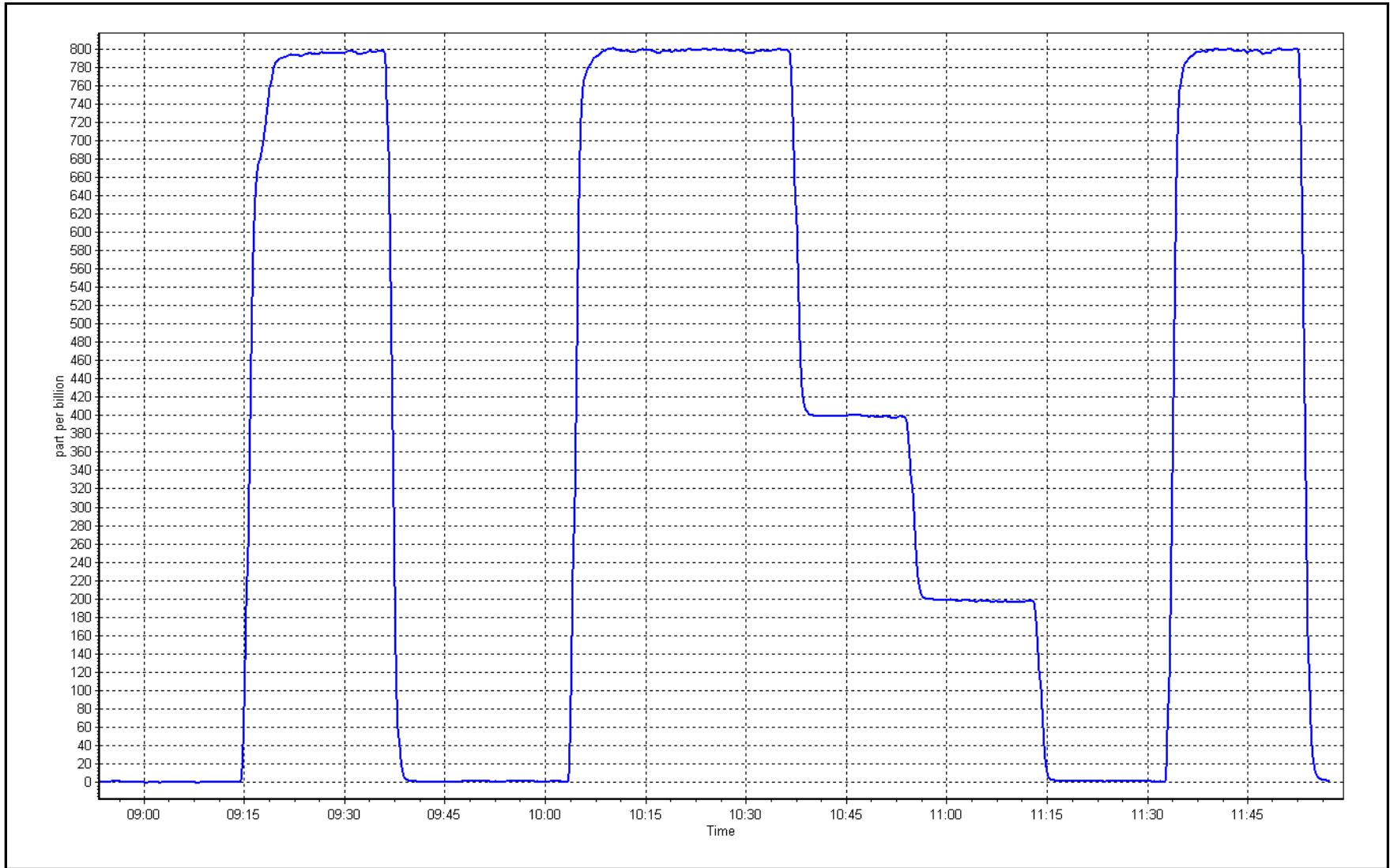
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	0.4	----	Correlation Coefficient	0.999980	≥0.995
800.0	798.2	1.0022	Slope	0.998551	0.90 - 1.10
400.5	398.5	1.0050	Intercept	-1.216163	+/-30
200.2	196.7	1.0180			



SO2 Calibration Plot

Date: February 19, 2026

Location: Mannix





Wood Buffalo Environmental Association

H₂S Calibration Report

Station Information

Station Name:	Mannix	Station number:	AMS 05
Calibration Date:	February 17, 2026	Last Cal Date:	January 5, 2026
Start time (MST):	6:52	End time (MST):	11:06
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.96	ppm	Cal Gas Exp Date:	November 15, 2026
Cal Gas Cylinder #:	DT0037363			
Removed Cal Gas Conc:	4.96	ppm	Rem Gas Exp Date:	N/A
Removed Gas Cyl #:	N/A		Diff between cyl:	
Calibrator Make/Model:	API T700		Serial Number:	5470
ZAG Make/Model:	API T701		Serial Number:	361

Analyzer Information

Analyzer make:	Thermo 43iQ	Analyzer serial #:	1200326169
Converter make:	Global	Converter serial #:	2022-225
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.988966	0.983106	Backgd or Offset:	1.26	1.26
Calibration intercept:	0.342518	0.522565	Coeff or Slope:	1.040	1.040

H₂S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4919	80.6	80.0	80.0	1.001
As found Mid point	4960	40.3	40.0	40.2	0.997
As found Low point	4980	20.2	20.0	20.2	0.997
New cylinder response					
Baseline Corr As found:	79.9	Prev response:	79.42	*% change:	0.6%
Baseline Corr 2nd AF pt:	40.1	AF Slope:	0.999118	AF Intercept:	0.162252
Baseline Corr 3rd AF pt:	20.1	AF Correlation:	0.999995	* = > +/-5% change initiates investigation	

H₂S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.4	----
High point	4919	80.6	80.0	79.0	1.012
Mid point	4960	40.3	40.0	40.1	0.997
Low point	4980	20.2	20.0	20.2	0.992
As left zero	5000	0.0	0.0	0.5	----
As left span	4919	80.6	80.0	79.8	1.002
SO ₂ Scrubber Check	4920	80.3	803.0	0.0	----
Date of last scrubber change:				Ave Corr Factor	1.000
Date of last converter efficiency test:					

Notes: SOx scrubber check after calibrator zero. No adjustments done.

Calibration Performed By: Jason Brooks



Wood Buffalo Environmental Association

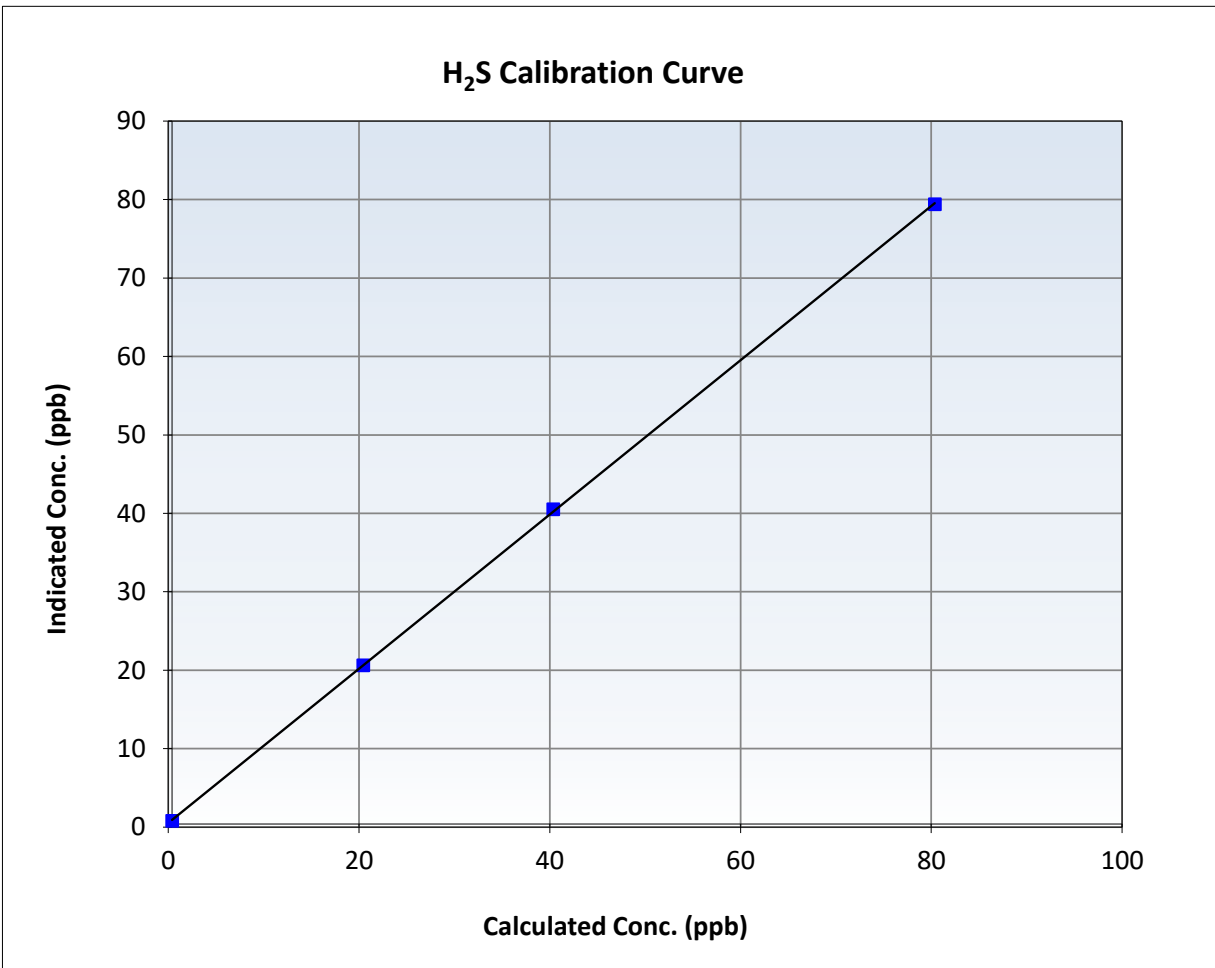
H₂S Calibration Summary

Station Information

Calibration Date:	February 17, 2026	Previous Calibration:	January 5, 2026
Station Name:	Mannix	Station Number:	AMS 05
Start Time (MST):	6:52	End Time (MST):	11:06
Analyzer make:	Thermo 43iQ	Analyzer serial #:	1200326169

Calibration Data

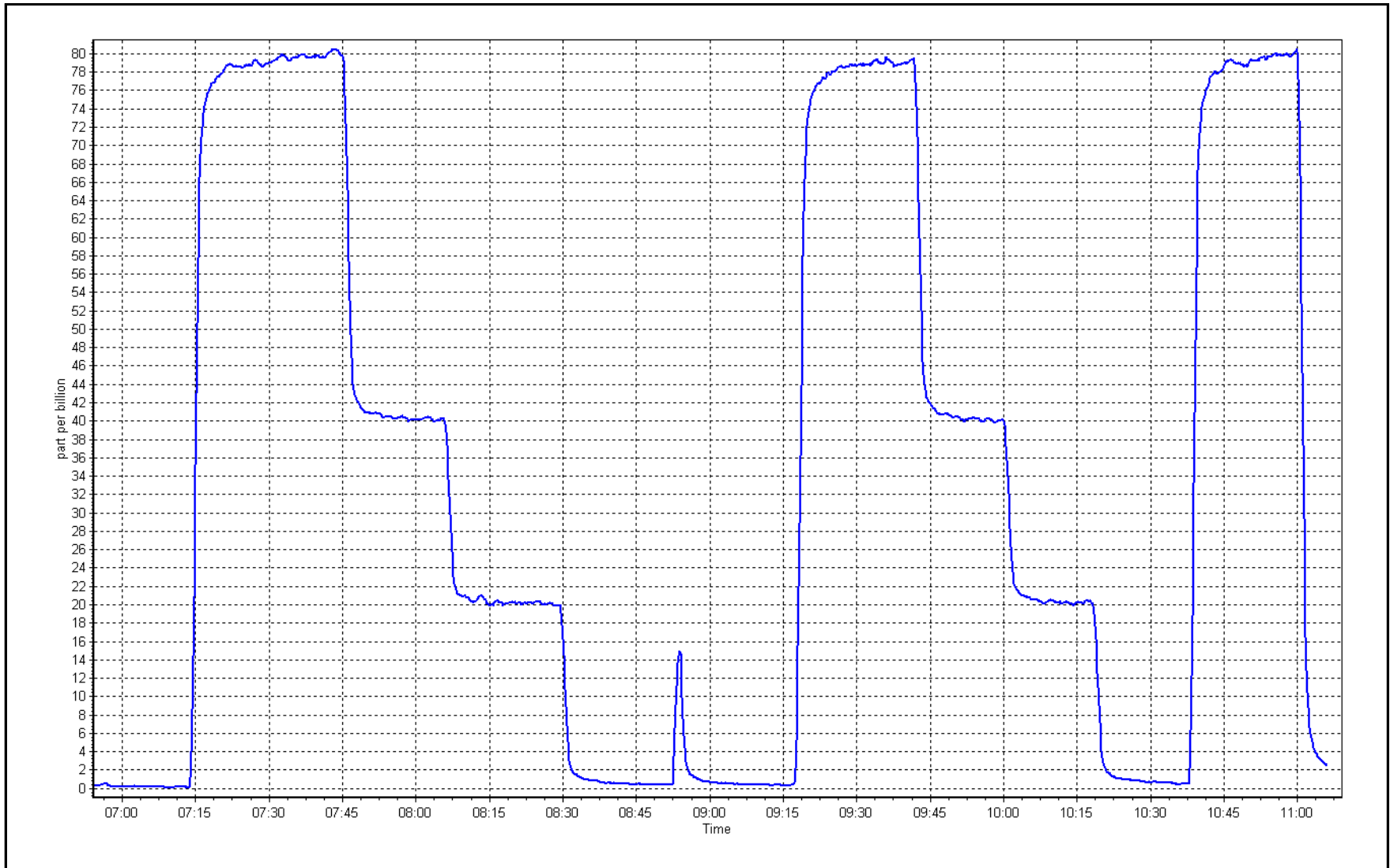
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.4	----	Correlation Coefficient	0.999967	≥0.995
80.0	79.0	1.0122	Slope	0.983106	0.90 - 1.10
40.0	40.1	0.9969	Intercept	0.522565	+/-3
20.0	20.2	0.9920			



H₂S Calibration Plot

Date: February 17, 2026

Location: Mannix





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Mannix	Station number:	AMS 05
Calibration Date:	February 19, 2026	Last Cal Date:	January 16, 2026
Start time (MST):	8:56	End time (MST):	11:54
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC308040	Cal Gas Expiry Date:	October 22, 2032
CH4 Cal Gas Conc.	500.3 ppm	CH4 Equiv Conc.	1047.6 ppm
C3H8 Cal Gas Conc.	199.0 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH4 Conc.	500.3 ppm	CH4 Equiv Conc.	1047.6 ppm
Removed C3H8 Conc.	199.0 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	API T700	Serial Number:	5470
Zero Air Gen model:	API T701	Serial Number:	361

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 15005164381
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.57E-04	2.57E-04	NMHC SP Ratio:	4.84E-05
CH4 Retention time:	13.9	13.7	NMHC Peak Area:	180863
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.9	16.74	16.00	1.047
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.00	Prev response	16.61	*% change	-3.8%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	79.9	16.74	16.69	1.003
Mid point	4960	40.0	8.38	8.38	1.000
Low point	4980	20.0	4.19	4.19	1.001
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.9	16.74	16.69	1.003
Average Correction Factor					1.001

Notes: Span adjusted. No maintenance done.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.9	8.75	8.34	1.048
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.34	Prev response	8.70	*% change	-4.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	79.9	8.75	8.73	1.001
Mid point	4960	40.0	4.38	4.39	0.998
Low point	4980	20.0	2.19	2.18	1.002
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.9	8.75	8.75	1.000
Average Correction Factor					1.001

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.9	7.99	7.66	1.044
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.66	Prev response	7.91	*% change	-3.3%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	79.9	7.99	7.96	1.005
Mid point	4960	40.0	4.00	4.00	1.001
Low point	4980	20.0	2.00	2.00	0.999
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.9	7.99	7.94	1.007
Average Correction Factor					1.002

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.991922	0.997062
THC Cal Offset:	0.004501	0.008081
CH ₄ Cal Slope:	0.989460	0.994835
CH ₄ Cal Offset:	0.001249	0.007436
NMHC Cal Slope:	0.993950	0.998981
NMHC Cal Offset:	0.002853	0.001844

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

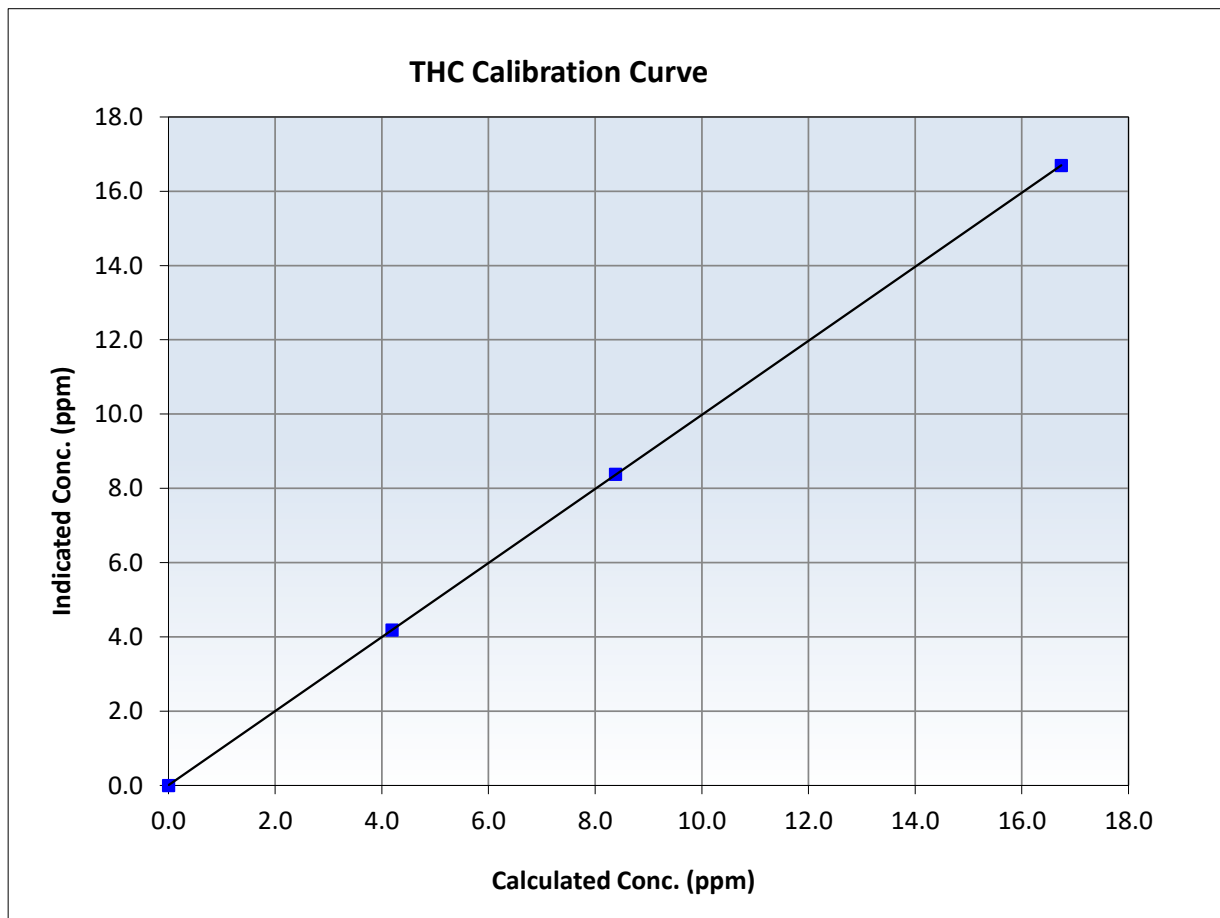
THC Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 16, 2026
Station Name:	Mannix	Station Number:	AMS 05
Start Time (MST):	8:56	End Time (MST):	11:54
Analyzer make:	Thermo 55i	Analyzer serial #:	15005164381

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999997	<i>≥0.995</i>
16.74	16.69	1.0029	Slope	0.997062	<i>0.90 - 1.10</i>
8.38	8.38	1.0000	Intercept	0.008081	<i>+/-0.5</i>
4.19	4.19	1.0010			





Wood Buffalo Environmental Association

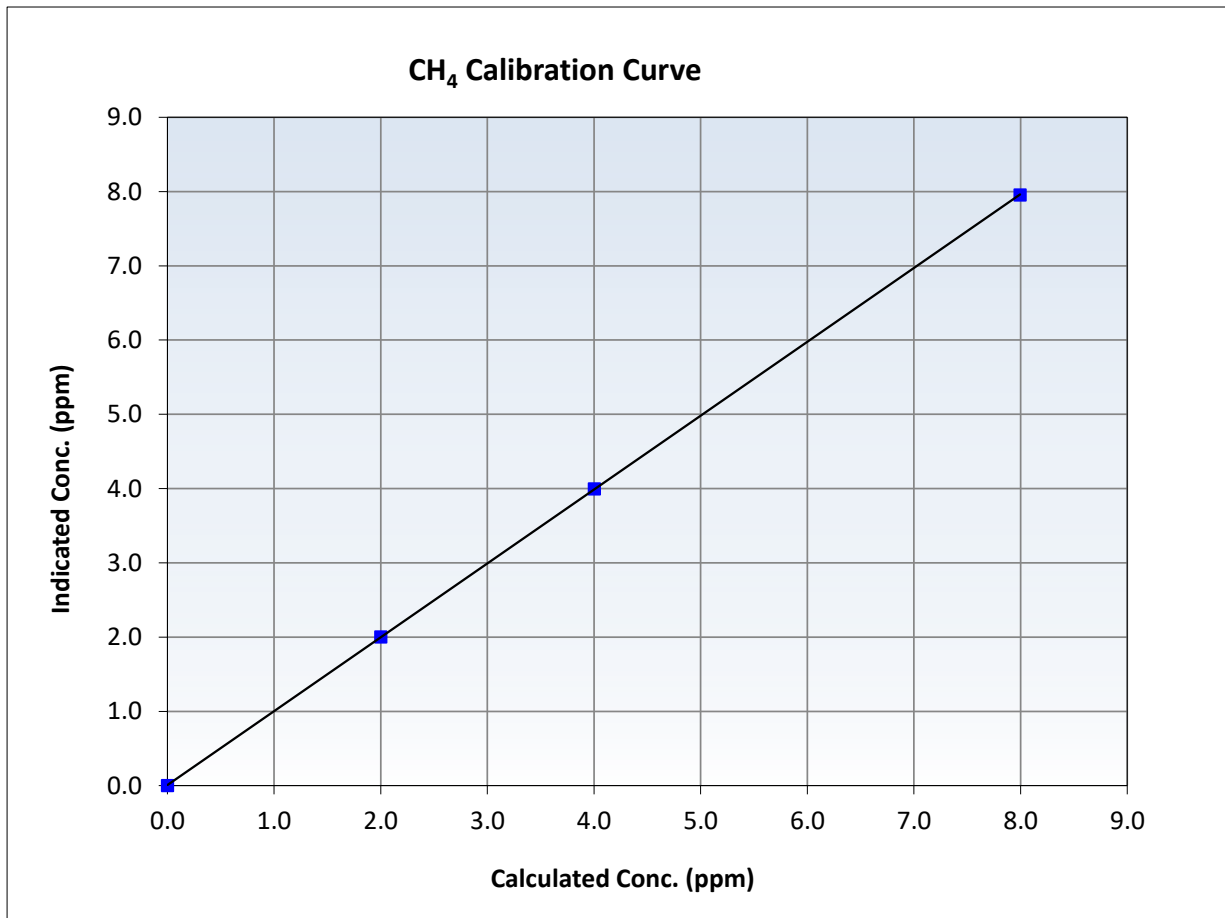
CH₄ Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 16, 2026
Station Name:	Mannix	Station Number:	AMS 05
Start Time (MST):	8:56	End Time (MST):	11:54
Analyzer make:	Thermo 55i	Analyzer serial #:	15005164381

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	≥0.995
7.99	7.96	1.0049	Slope	0.90 - 1.10
4.00	4.00	1.0014	Intercept	+/-0.5
2.00	2.00	0.9991		





Wood Buffalo Environmental Association

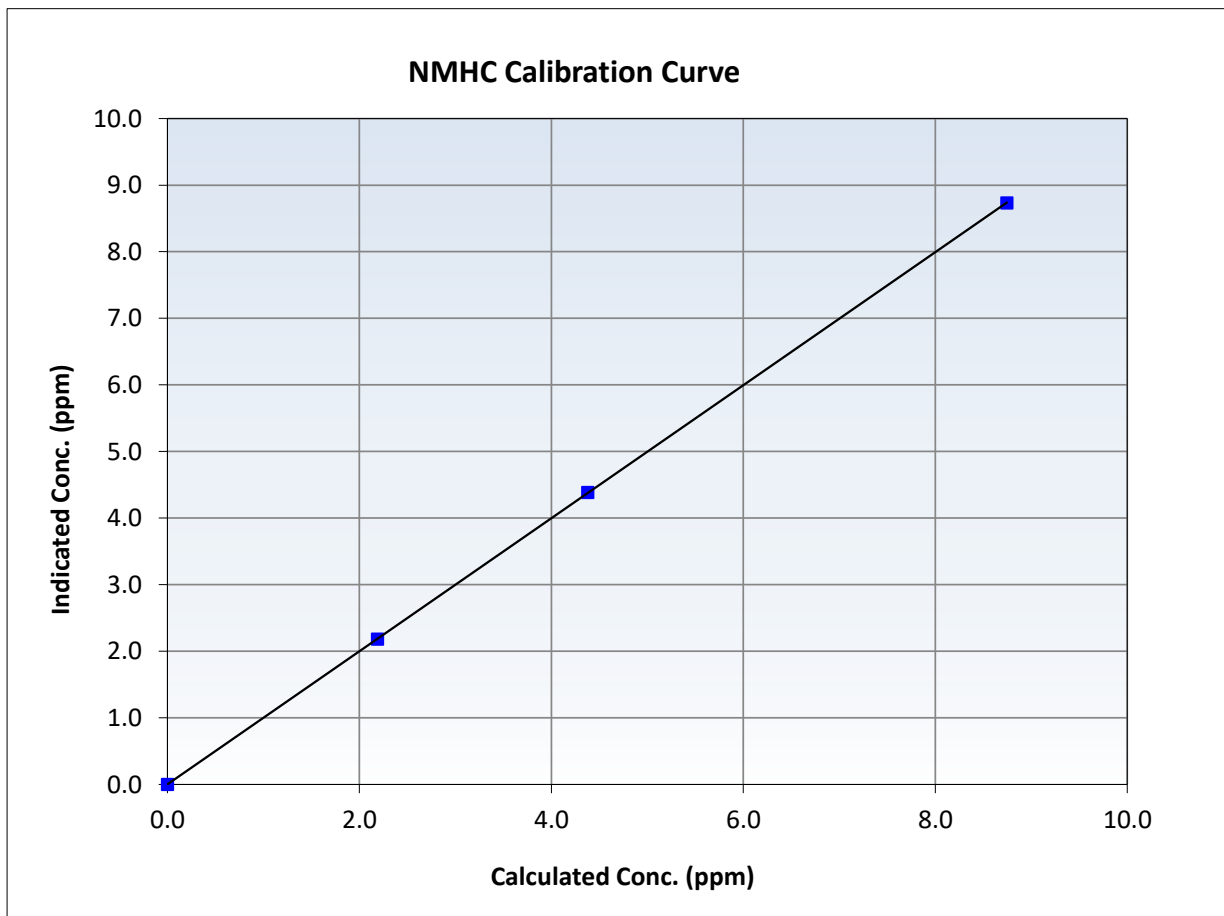
NMHC Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 16, 2026
Station Name:	Mannix	Station Number:	AMS 05
Start Time (MST):	8:56	End Time (MST):	11:54
Analyzer make:	Thermo 55i	Analyzer serial #:	15005164381

Calibration Data

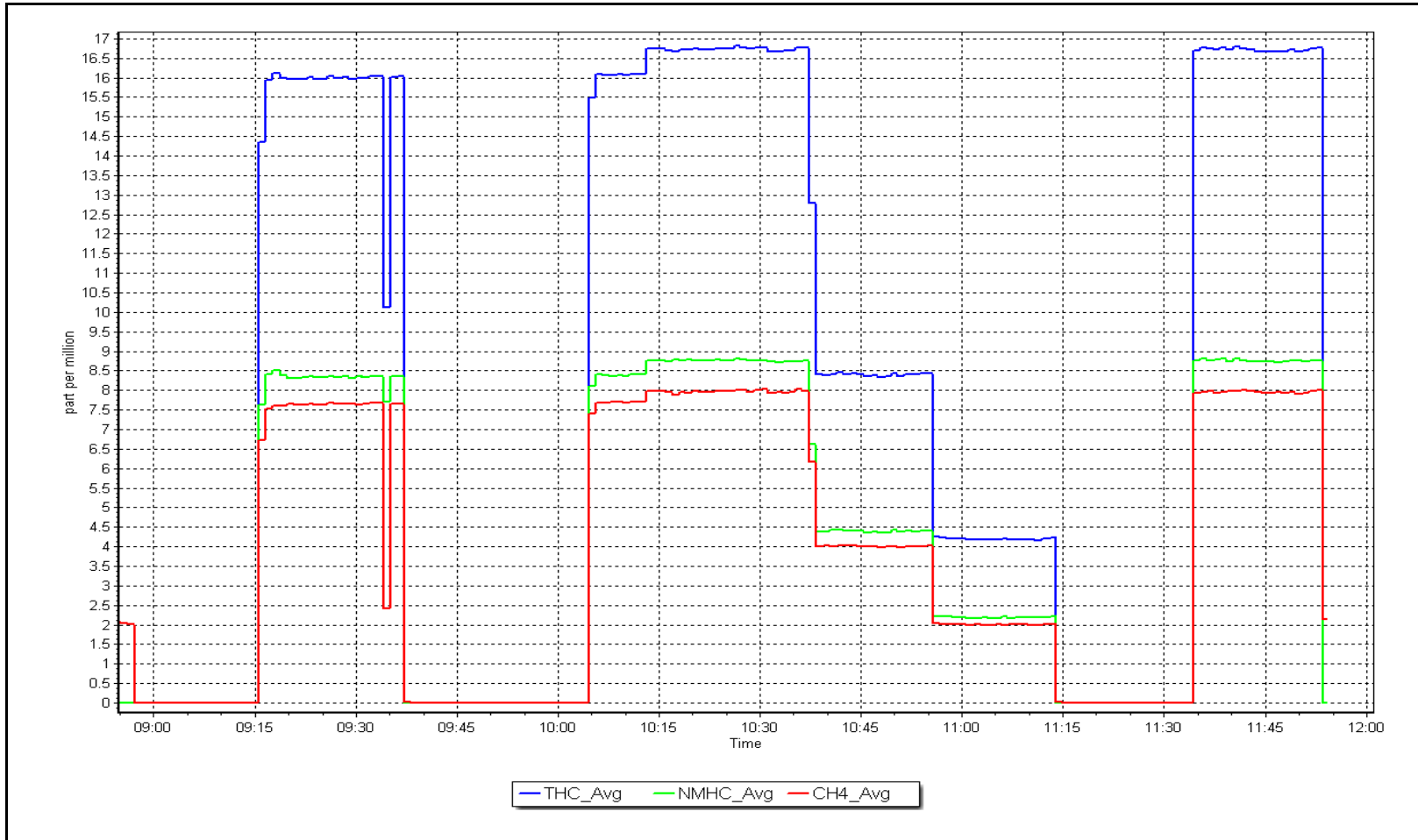
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999996	<i>≥0.995</i>
8.75	8.73	1.0013	Slope	0.998981	<i>0.90 - 1.10</i>
4.38	4.39	0.9982	Intercept	0.001844	<i>+/-0.5</i>
2.19	2.18	1.0023			



NMHC Calibration Plot

Date: February 19, 2026

Location: Mannix





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS06
PATRICIA MCINNES
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Patricia McInnes	Station number:	AMS 06
Calibration Date:	February 6, 2026	Last Cal Date:	January 16, 2026
Start time (MST):	10:05	End time (MST):	13:45
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.08	ppm	Cal Gas Exp Date: October 22, 2032
Cal Gas Cylinder #:	CC255448		
Removed Cal Gas Conc:	50.08	ppm	Rem Gas Exp Date:
Removed Gas Cyl #:			Diff between cyl:
Calibrator Model:	API T700		Serial Number: 3566
Zero Air Gen Model:	API T701		Serial Number: 4602

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number: 1160290013
Analyzer Range:	0 - 1000 ppb	

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.006127	1.001577	Backgd or Offset:	18.6	18.6
Calibration intercept:	1.762901	-0.495566	Coeff or Slope:	0.931	0.913

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.2	----
As found High point	4920	79.8	799.3	812.2	0.984
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	812.0	Previous response	806.0	*% change	0.7%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		<i>* = > +/-5% change initiates investigation</i>	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	4920	79.8	799.3	800.2	0.999
Mid point	4960	39.9	399.6	399.8	1.000
Low point	4980	20.0	200.3	199.6	1.004
As left zero	5000	0.0	0.0	-0.1	----
As left span	4920	79.8	799.3	800.8	0.998
Average Correction Factor:					1.001

Notes: Changed the inlet filter after as founds. Adjusted zero and span.

Calibration Performed By: Param Kaur



Wood Buffalo Environmental Association

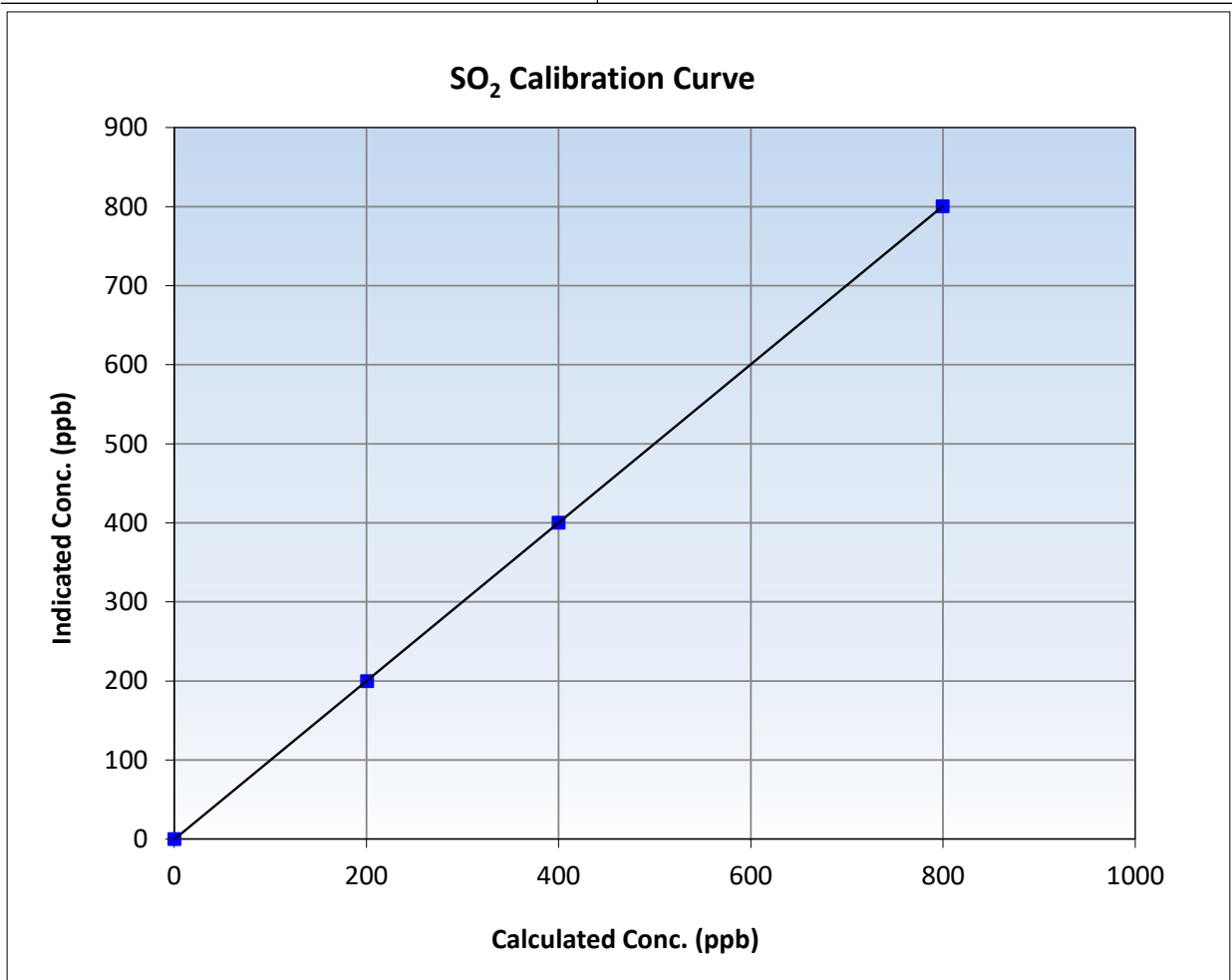
SO₂ Calibration Summary

Station Information

Calibration Date:	February 6, 2026	Previous Calibration:	January 16, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	10:05	End Time (MST):	13:45
Analyzer make:	Thermo 43i	Analyzer serial #:	1160290013

Calibration Data

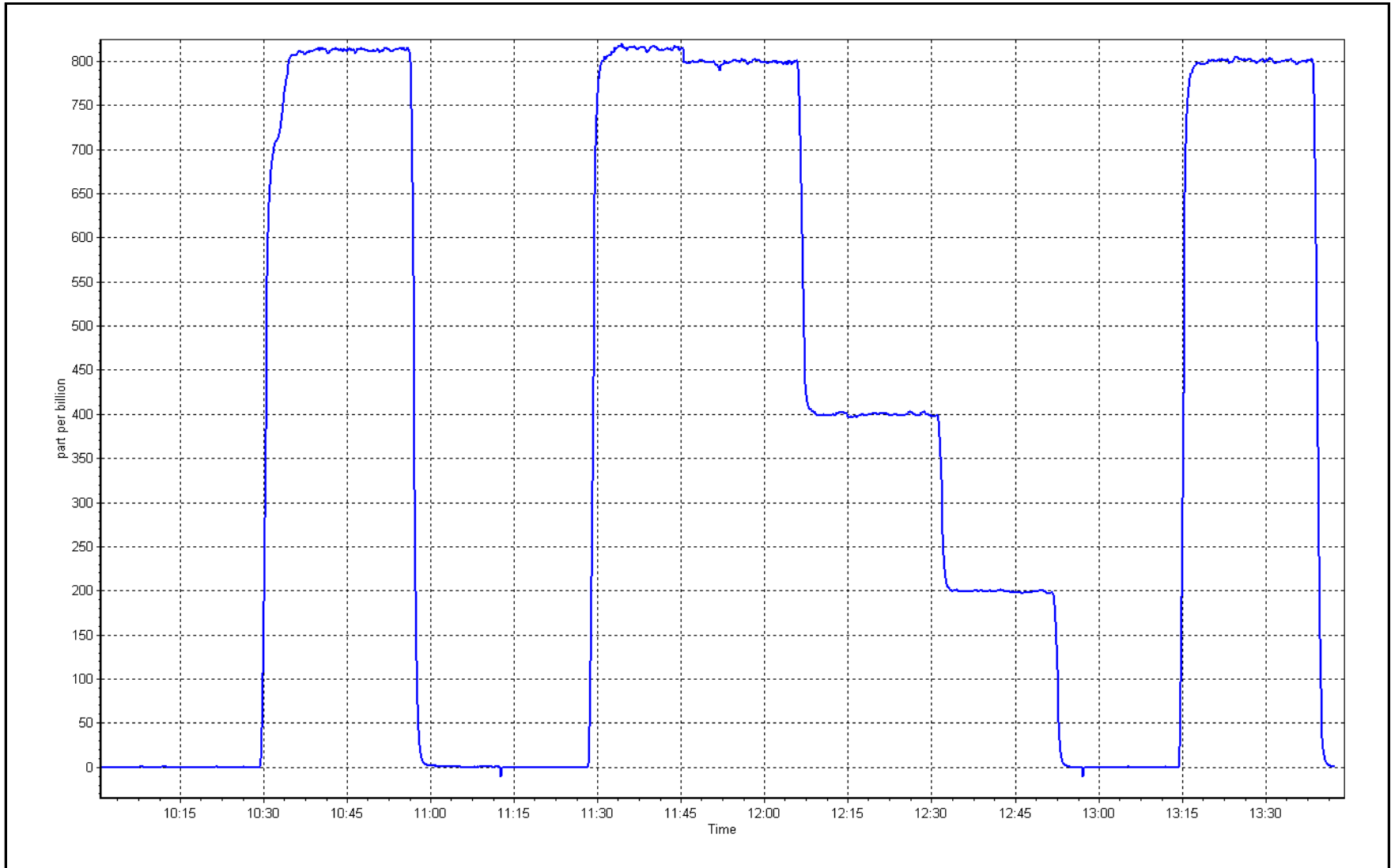
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	-0.1	----	Correlation Coefficient	0.999999	≥0.995
799.3	800.2	0.9989	Slope	1.001577	0.90 - 1.10
399.6	399.8	0.9996	Intercept	-0.495566	+/-30
200.3	199.6	1.0036			



SO2 Calibration Plot

Date: February 6, 2026

Location: Patricia McInnes





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name: Patricia McInnes	Station number: AMS 06
Calibration Date: February 5, 2026	Last Cal Date: January 12, 2026
Start time (MST): 10:23	End time (MST): 15:23
Reason: Routine	

Calibration Standards

Cal Gas Concentration: 4.760 ppm	Cal Gas Exp Date: August 28, 2027
Cal Gas Cylinder #: DT0014585	
Removed Cal Gas Conc: 4.760 ppm	Rem Gas Exp Date:
Removed Gas Cyl #:	Diff between cyl:
Calibrator Make/Model: API T700	Serial Number: 3566
ZAG Make/Model: API T701	Serial Number: 4602

Analyzer Information

Analyzer make: Thermo 43i TLE	Analyzer serial #: 1218153358
Converter make: CDN-101	Converter serial #: 621
Analyzer Range: 0 - 100 ppb	Converter Temp: 825 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.997256	1.009690	Backgd or Offset:	1.95	2.24
Calibration intercept:	0.260000	-0.300000	Coeff or Slope:	1.115	1.115

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.2	----
As found High point	4916	84.0	80.0	80.2	1.000
As found Mid point	4958	42.0	40.0	40.5	0.992
As found Low point	4979	21.0	20.0	20.3	0.995
New cylinder response					
Baseline Corr As found:	80.0	Prev response:	80.01	*% change:	0.0%
Baseline Corr 2nd AF pt:	40.3	AF Slope:	1.000400	AF Intercept:	0.300000
Baseline Corr 3rd AF pt:	20.1	AF Correlation:	0.999983	* = > +/-5% change initiates investigation	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4916	84.0	80.0	80.5	0.993
Mid point	4958	42.0	40.0	40.2	0.995
Low point	4979	21.0	20.0	19.4	1.031
As left zero	5000	0.0	0.0	0.1	----
As left span	4916	84.0	80.0	81.0	0.987
SO2 Scrubber Check				0.0	
Date of last scrubber change:	Monday, December 20, 2021			Ave Corr Factor	1.006
Date of last converter efficiency test:					

Notes: Sample inlet filter and pump changed after multi point as founds. SOX scrubber ran after calibrator zero and it passed. Adjusted zero only.

Calibration Performed By: Parampreet Kaur



Wood Buffalo Environmental Association

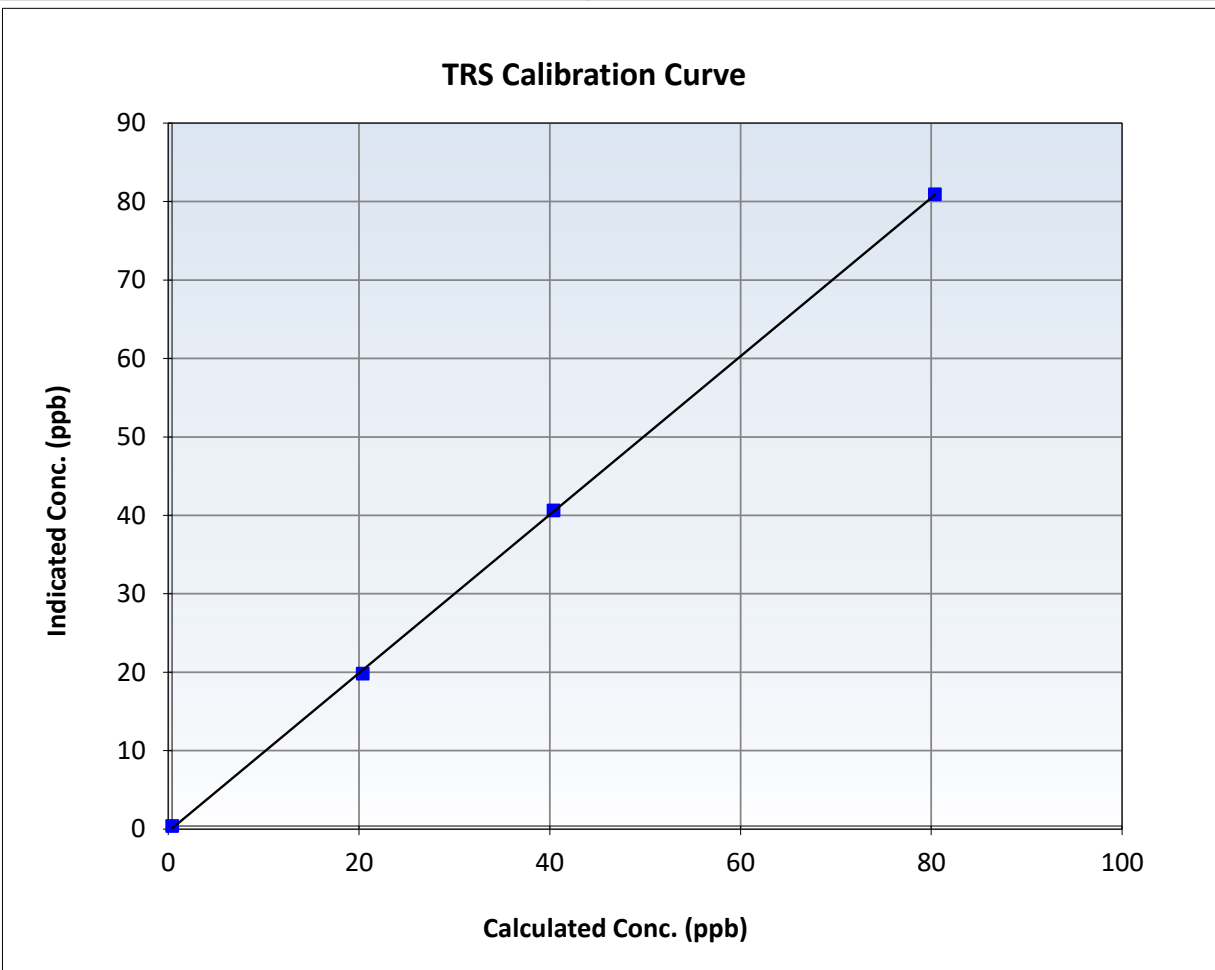
TRS Calibration Summary

Station Information

Calibration Date:	February 5, 2026	Previous Calibration:	January 12, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	10:23	End Time (MST):	15:23
Analyzer make:	Thermo 43i TLE	Analyzer serial #:	1218153358

Calibration Data

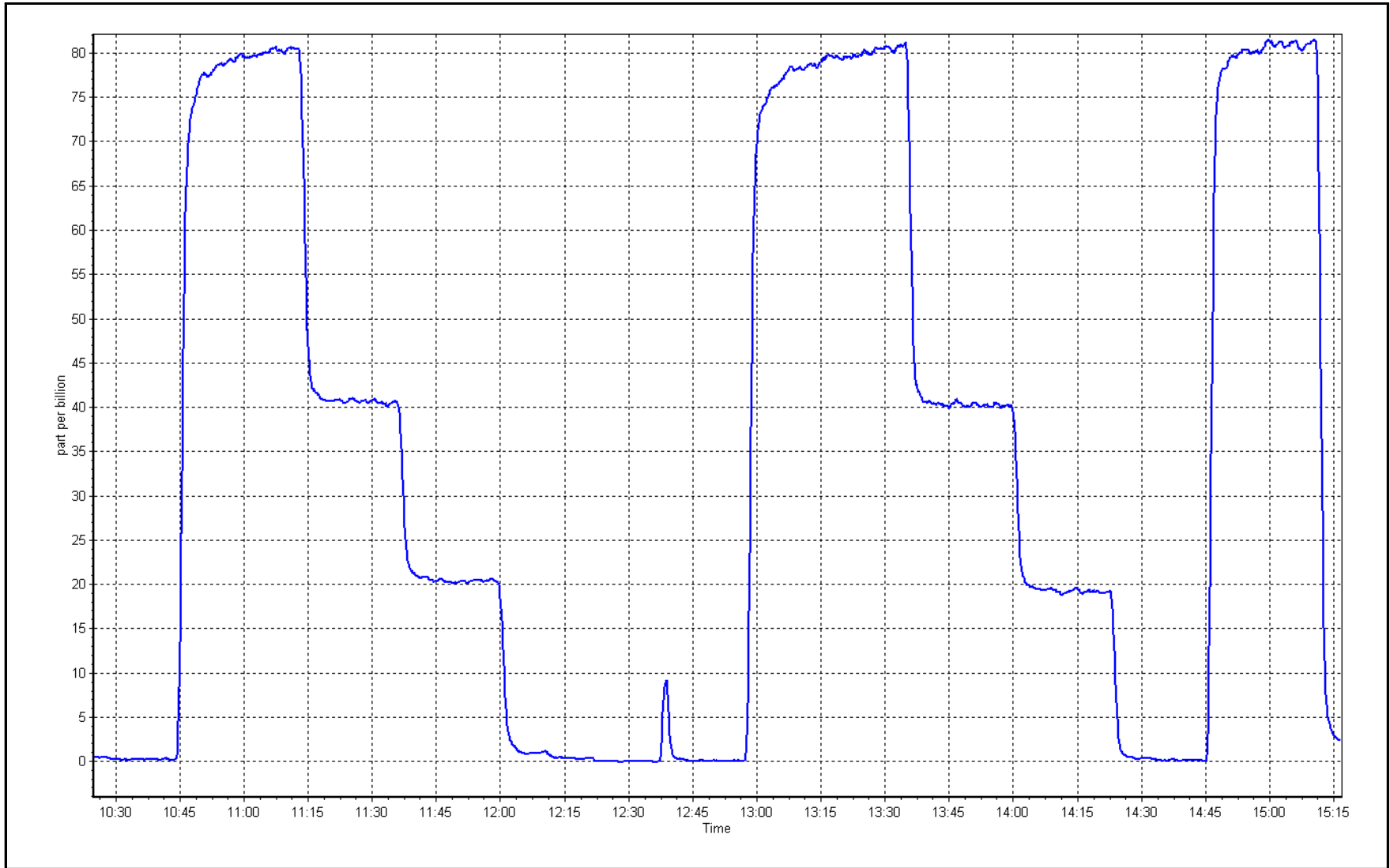
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999903	≥ 0.995
80.0	80.5	0.9934	Slope	1.009690	$0.90 - 1.10$
40.0	40.2	0.9946	Intercept	-0.300000	± 3
20.0	19.4	1.0305			



TRS Calibration Plot

Date: February 5, 2026

Location: Patricia McInnes





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Patricia McInnes	Station number:	AMS 06
Calibration Date:	February 6, 2026	Last Cal Date:	January 16, 2026
Start time (MST):	10:05	End time (MST):	13:45
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC255448	Cal Gas Expiry Date:	October 22, 2032
CH ₄ Cal Gas Conc.	501.4 ppm	CH ₄ Equiv Conc.	1049.5 ppm
C ₃ H ₈ Cal Gas Conc.	199.3 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH ₄ Conc.	501.4 ppm	CH ₄ Equiv Conc.	1049.5 ppm
Removed C ₃ H ₈ Conc.	199.3 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	API T700	Serial Number:	3566
Zero Air Gen model:	API T701	Serial Number:	4602

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1118148494
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH ₄ SP Ratio:	2.60E-04	2.60E-04	NMHC SP Ratio:	5.22E-05
CH ₄ Retention time:	14.2	14.2	NMHC Peak Area:	167538
Zero Chromatogram:	ON	ON	Flat Baseline:	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	---
As found High point	4920	79.8	16.75	16.79	0.997
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.79	Prev response	16.74	*% change	0.3%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	---
High point	4920	79.8	16.75	16.82	0.996
Mid point	4960	39.9	8.37	8.37	1.001
Low point	4980	20.0	4.20	4.12	1.018
As left zero	5000	0.0	0.00	0.00	---
As left span	4920	79.8	16.75	16.83	0.995
Average Correction Factor					1.005

Notes: Changed the inlet filter after as founds. No adjustments made.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.8	8.75	8.76	0.999
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.76	Prev response	8.76	*% change	0.0%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	79.8	8.75	8.80	0.994
Mid point	4960.1	39.9	4.37	4.40	0.994
Low point	4980	20.0	2.19	2.20	0.996
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.8	8.75	8.80	0.994
Average Correction Factor					0.995

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.8	8.00	8.04	0.995
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.04	Prev response	7.98	*% change	0.8%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	79.8	8.00	8.02	0.998
Mid point	4960.1	39.9	4.00	3.97	1.009
Low point	4980	20.0	2.01	1.92	1.044
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.8	8.00	8.03	0.997
Average Correction Factor					1.017

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	1.000424	1.005554
THC Cal Offset:	-0.016193	-0.044794
CH ₄ Cal Slope:	1.001474	1.004986
CH ₄ Cal Offset:	-0.037192	-0.043990
NMHC Cal Slope:	0.999228	1.005838
NMHC Cal Offset:	0.021400	-0.001404

Calibration Performed By: Param Kaur



Wood Buffalo Environmental Association

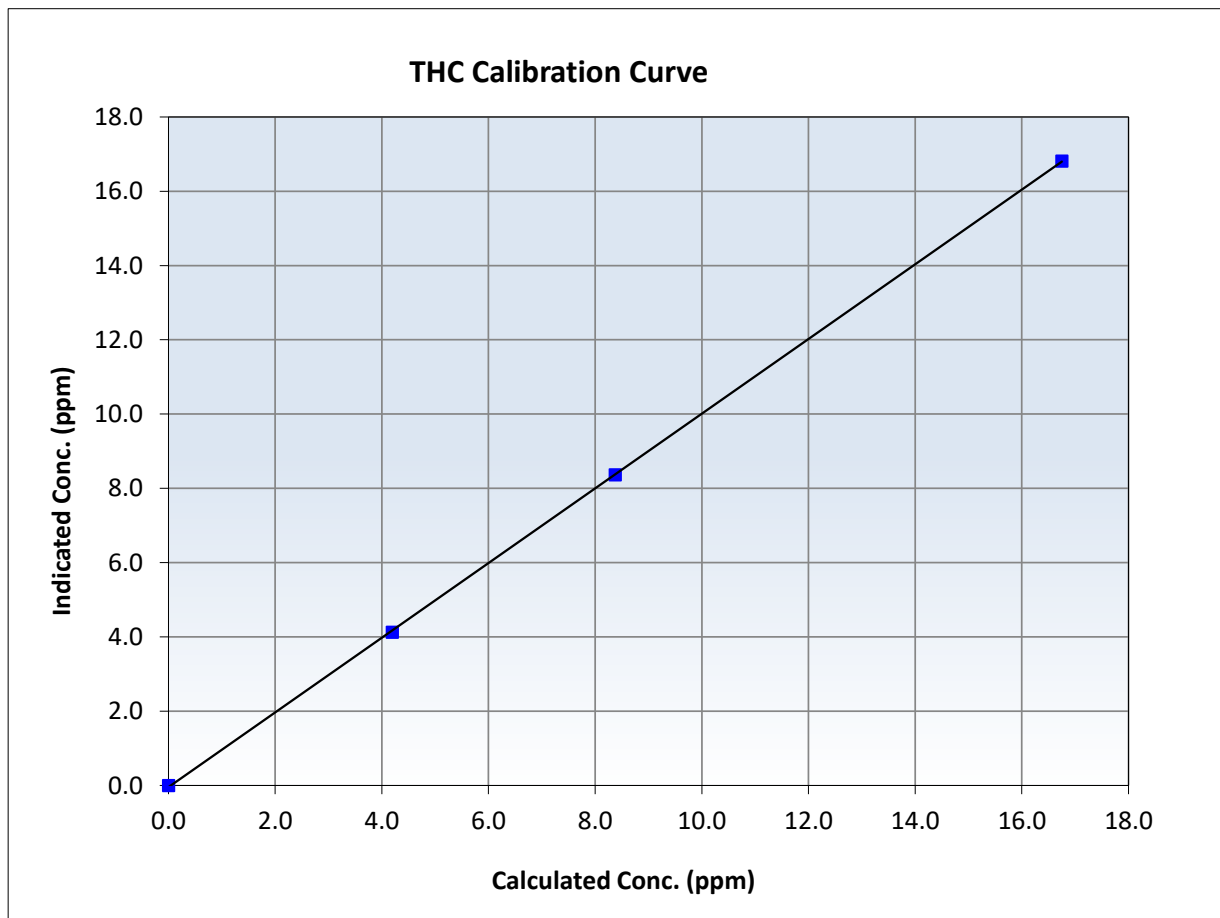
THC Calibration Summary

Station Information

Calibration Date:	February 6, 2026	Previous Calibration:	January 16, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	10:05	End Time (MST):	13:45
Analyzer make:	Thermo 55i	Analyzer serial #:	1118148494

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999966	<i>≥0.995</i>
16.75	16.82	0.9961	Slope	1.005554	<i>0.90 - 1.10</i>
8.37	8.37	1.0009	Intercept	-0.044794	<i>+/-0.5</i>
4.20	4.12	1.0182			





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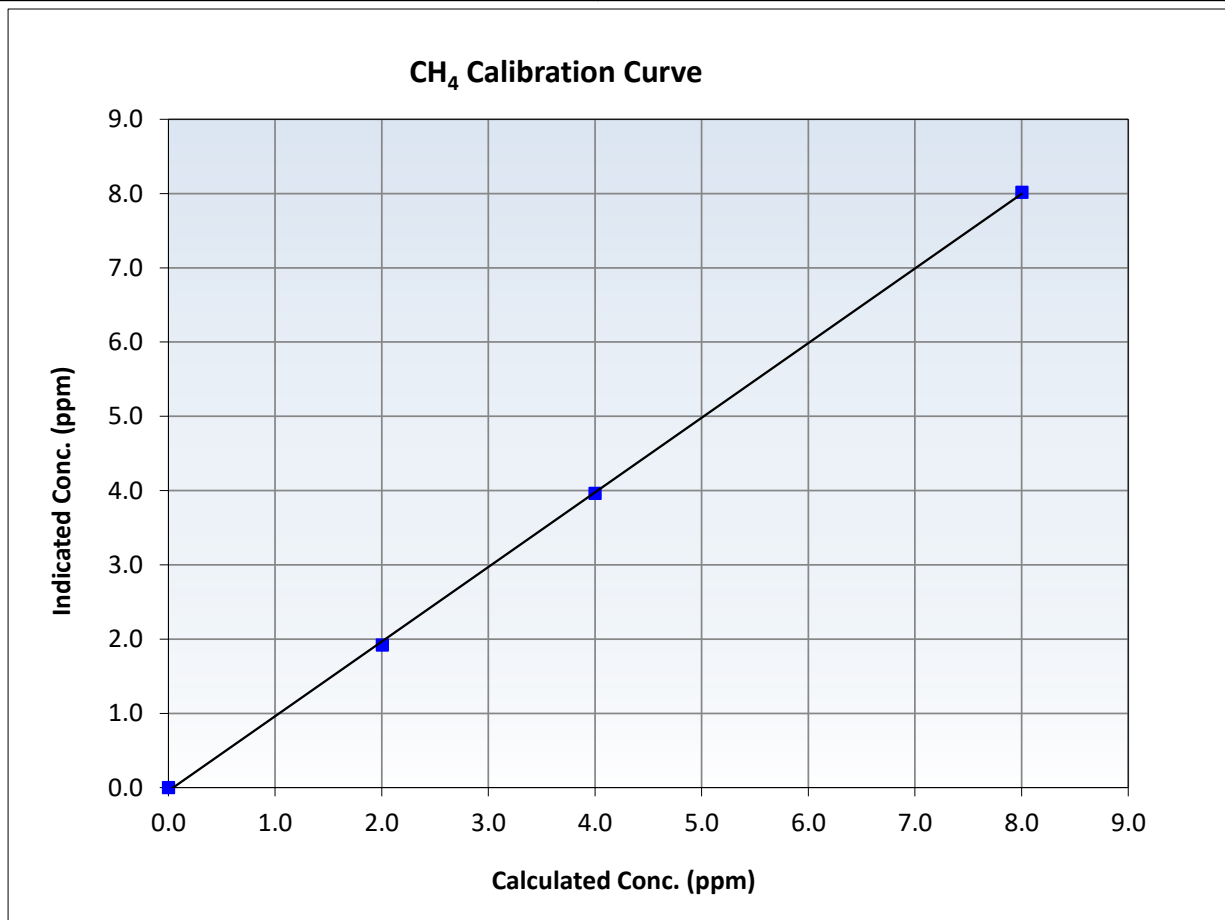
CH₄ Calibration Summary

Station Information

Calibration Date:	February 6, 2026	Previous Calibration:	January 16, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	10:05	End Time (MST):	13:45
Analyzer make:	Thermo 55i	Analyzer serial #:	1118148494

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<i>Limits</i>	
0.00	0.00	----	Correlation Coefficient	0.999859	<i>≥0.995</i>
8.00	8.02	0.9982	Slope	1.004986	<i>0.90 - 1.10</i>
4.00	3.97	1.0091	Intercept	-0.043990	<i>+/-0.5</i>
2.01	1.92	1.0440			





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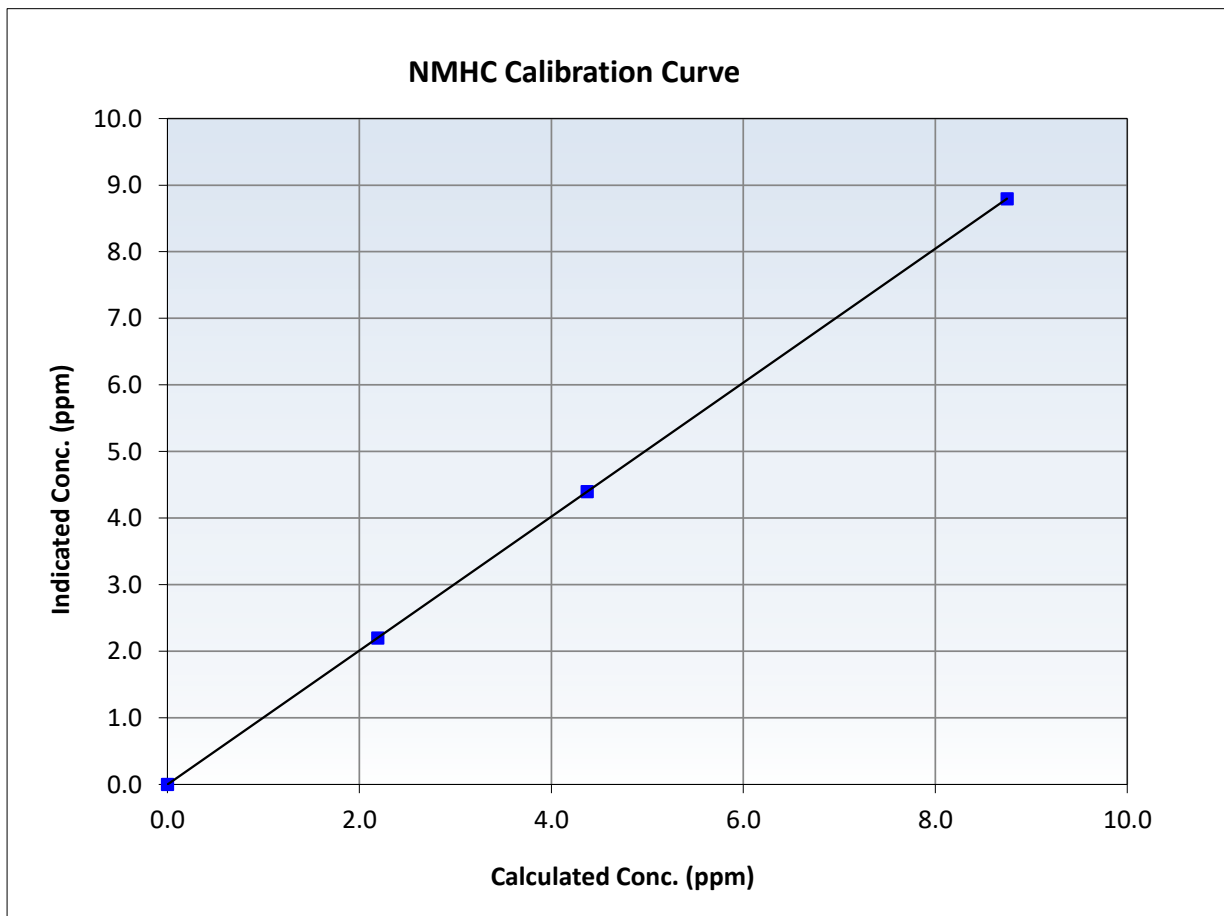
NMHC Calibration Summary

Station Information

Calibration Date:	February 6, 2026	Previous Calibration:	January 16, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	10:05	End Time (MST):	13:45
Analyzer make:	Thermo 55i	Analyzer serial #:	1118148494

Calibration Data

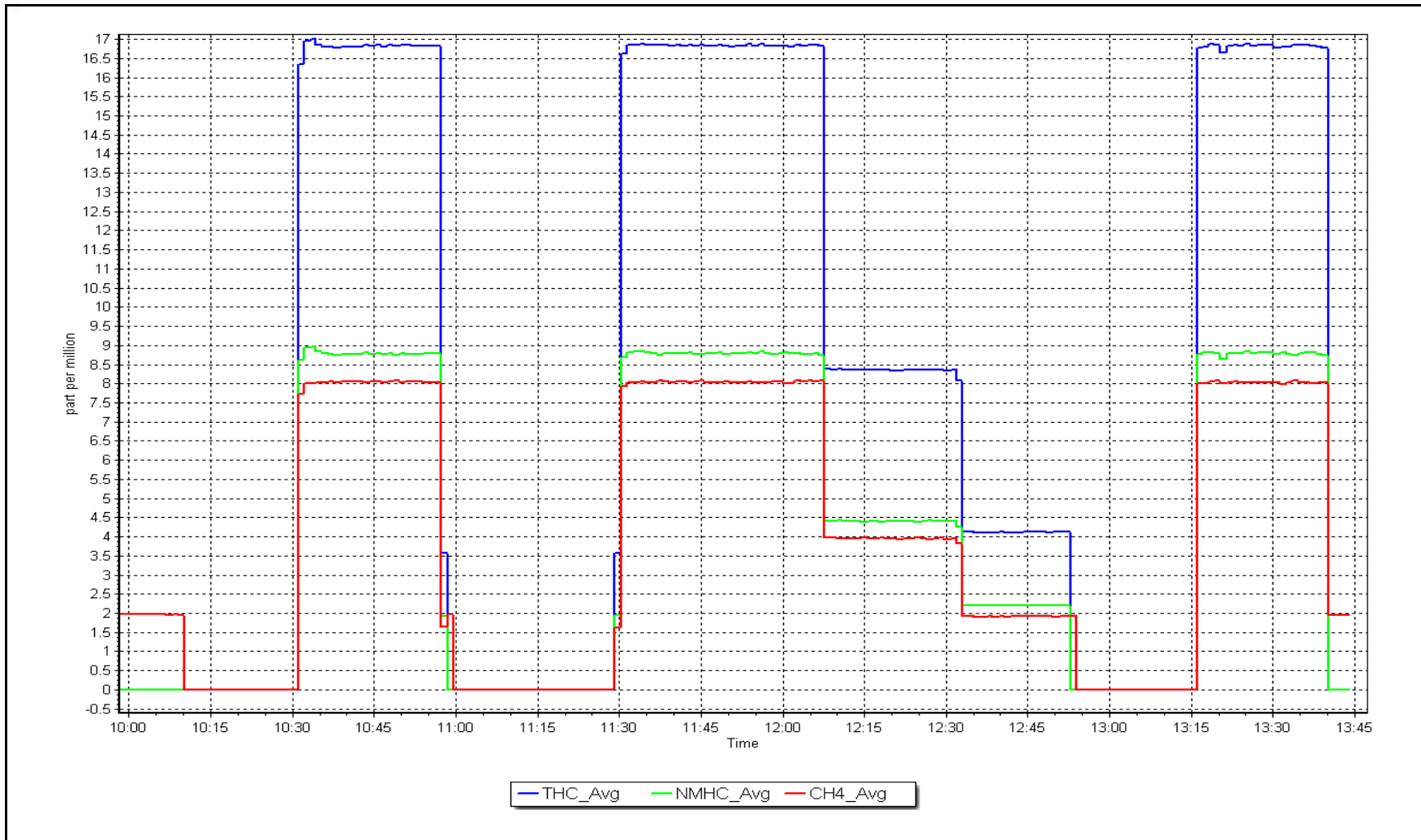
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	1.000000	<i>≥0.995</i>
8.75	8.80	0.9943	Slope	1.005838	<i>0.90 - 1.10</i>
4.37	4.40	0.9942	Intercept	-0.001404	<i>+/-0.5</i>
2.19	2.20	0.9960			



NMHC Calibration Plot

Date: February 6, 2026

Location: Patricia McInnes





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Patricia McInnes	Station number:	AMS 06
Calibration Date:	February 18, 2026	Last Cal Date:	February 6, 2026
Start time (MST):	12:41	End time (MST):	14:15
Reason:	Cylinder Change		

Calibration Standards

Gas Cert Reference:	CC255448	Cal Gas Expiry Date:	October 22, 2032
CH4 Cal Gas Conc.	501.4 ppm	CH4 Equiv Conc.	1049.5 ppm
C3H8 Cal Gas Conc.	199.3 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH4 Conc.	501.4 ppm	CH4 Equiv Conc.	1049.5 ppm
Removed C3H8 Conc.	199.3 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	API T700	Serial Number:	3566
Zero Air Gen model:	API T701	Serial Number:	4602

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1118148494
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.60E-04	2.60E-04	NMHC SP Ratio:	5.22E-05	5.22E-05
CH4 Retention time:	14.2	14.2	NMHC Peak Area:	167538	167538
Zero Chromatogram:	ON	ON	Flat Baseline:	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.8	16.75	16.80	0.997
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.80	Prev response	16.80	*% change	0.0%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.8	16.75	16.76	0.999

Average Correction Factor

Notes: H2 & N2 cylinders were changed after as founds. No adjustments made.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.8	8.75	8.75	0.999
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.75	Prev response	8.80	*% change	-0.5%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.8	8.75	8.73	1.002
Average Correction Factor					

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.8	8.00	8.05	0.995
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.05	Prev response	8.00	*% change	0.6%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.8	8.00	8.03	0.997
Average Correction Factor					

Calibration Statistics

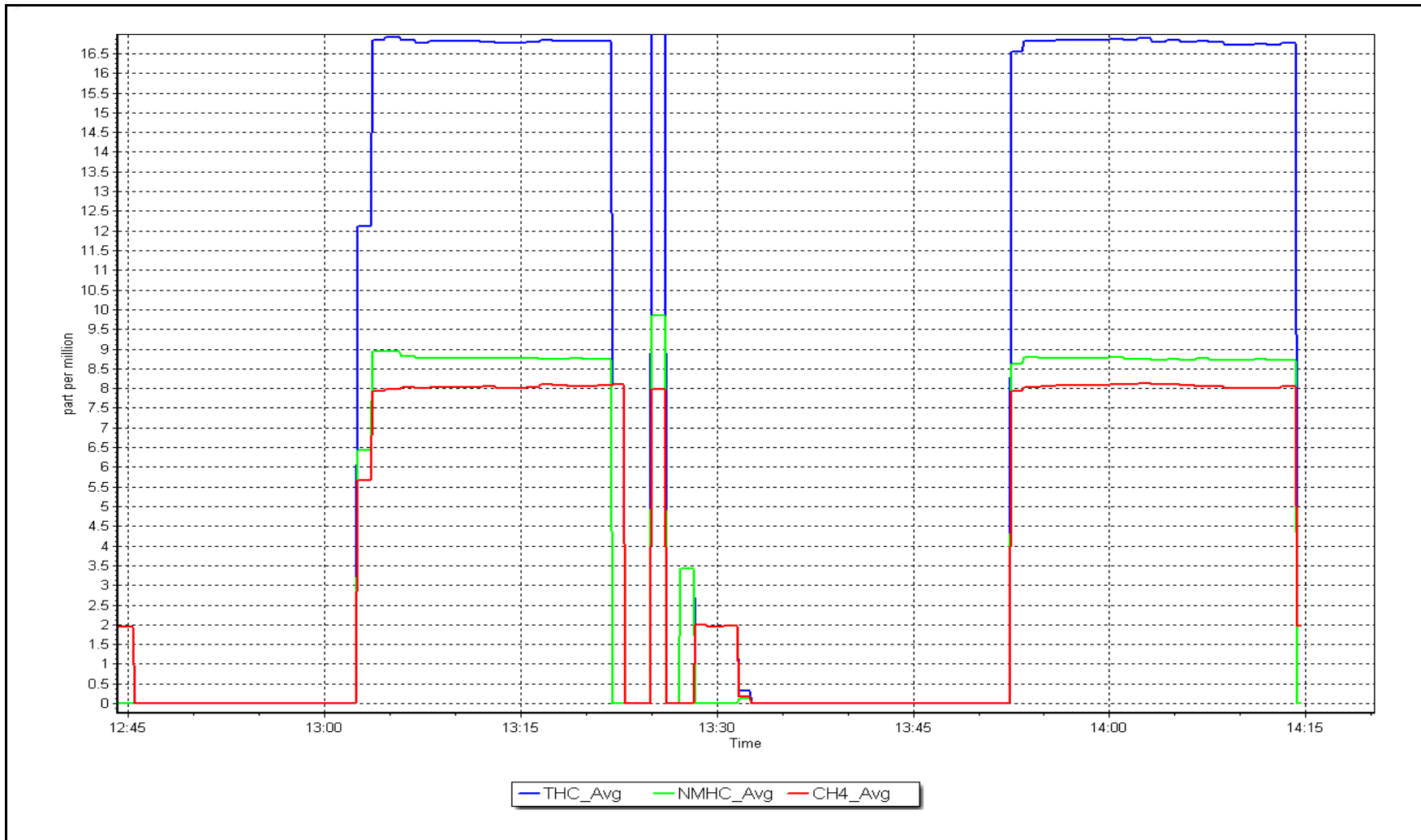
	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	1.005554	
THC Cal Offset:	-0.044794	
CH ₄ Cal Slope:	1.004986	
CH ₄ Cal Offset:	-0.043990	
NMHC Cal Slope:	1.005838	
NMHC Cal Offset:	-0.001404	

Calibration Performed By: Param Kaur

NMHC Calibration Plot

Date: February 18, 2026

Location: Patricia McInnes





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Patricia McInnes
 Station number: AMS 06
 Calibration Date: February 9, 2026
 Last Cal Date: January 20, 2026
 Start time (MST): 10:11
 End time (MST): 15:11
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0036234
 NOX Cal Gas Conc: 62.2 ppm
 Removed Cylinder #:
 Removed Gas NOX Conc: 62.20 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701
 Cal Gas Expiry Date: July 22, 2032
 NO Cal Gas Conc: 61.90 ppm
 Removed Gas Exp Date:
 Removed Gas NO Conc: 61.90 ppm
 NO gas Diff:
 Serial Number: 5240
 Serial Number: 4602

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	----	----
AF High point	4935	64.6	803.7	799.8	3.9	808.0	797.2	10.8	0.9947	1.0034
AF Mid point										
AF Low point										
New cyl resp										

Previous Response NO_x = 804.0 ppb NO = 799.1 ppb * = > +/-5% change initiates investigation *Percent Change NO_x = 0.5%
 Baseline Corr 1st pt NO_x = 808.0 ppb NO = 797.1 ppb As Found Statistics *Percent Change NO = -0.3%
 Baseline Corr 2nd pt NO_x = NA ppb NO = NA ppb As found NO_x r²: Nx SI: Nx Int:
 Baseline Corr 3rd pt NO_x = NA ppb NO = NA ppb As found NO r²: NO SI: NO Int:
 As found NO₂ r²: NO₂ SI: NO₂ Int:

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1172750022

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.999824	1.001716
NO _x Cal Offset:	0.412722	0.572234
NO Cal Slope:	1.000067	1.000595
NO Cal Offset:	-0.725906	-1.085729
NO ₂ Cal Slope:	1.003465	1.002000
NO ₂ Cal Offset:	0.630013	1.010862

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.871	0.871	NO bkgnd or offset:	3.5	3.5
NOX coeff or slope:	0.998	0.998	NOX bkgnd or offset:	3.8	3.8
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	160.5	161.5

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOx concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOx concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOx Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.4	0.2	0.2	----	----
High point	4935	64.6	803.7	799.8	3.9	805.1	799.5	5.6	0.9982	1.0004
Mid point	4968	32.3	401.8	399.9	1.9	404.5	399.4	5.1	0.9933	1.0011
Low point	4984	16.2	201.5	200.5	1.0	201.7	197.6	4.1	0.9991	1.0149
As left zero	5000	0.0	0.0	0.0	0.0	0.4	0.4	0.1	----	----
As left span	4935	64.6	803.7	392.3	411.4	799.2	392.3	407.0	1.0056	1.0000
Average Correction Factor									0.9969	1.0055

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.2	----	----
High GPT point	793.9	389.3	408.5	409.8	0.9968	100.3%
Mid GPT point	793.9	595.6	202.2	204.3	0.9896	101.1%
Low GPT point	793.9	694.5	103.3	105.1	0.9826	101.8%
Average Correction Factor					0.9897	101.0%

Notes:

Changed the inlet filter after as founds. No adjustments made.

Calibration Performed By:

Param Kaur



Wood Buffalo Environmental Association

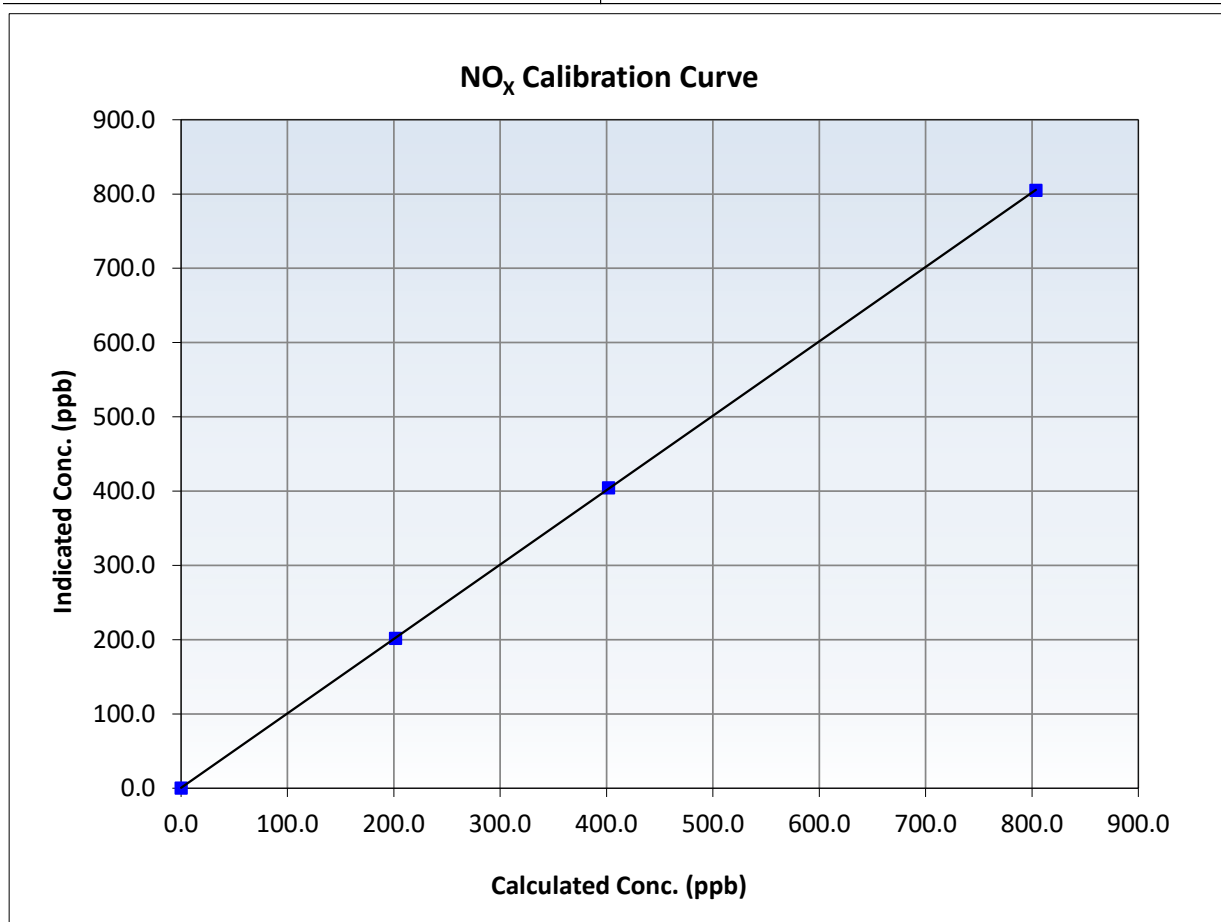
NO_x Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 20, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	10:11	End Time (MST):	15:11
Analyzer make:	Thermo 42i	Analyzer serial #:	1172750022

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.4	----	Correlation Coefficient	0.999992	<i>≥0.995</i>
803.7	805.1	0.9982	Slope	1.001716	<i>0.90 - 1.10</i>
401.8	404.5	0.9933	Intercept	0.572234	<i>+/-20</i>
201.5	201.7	0.9991			





Wood Buffalo Environmental Association

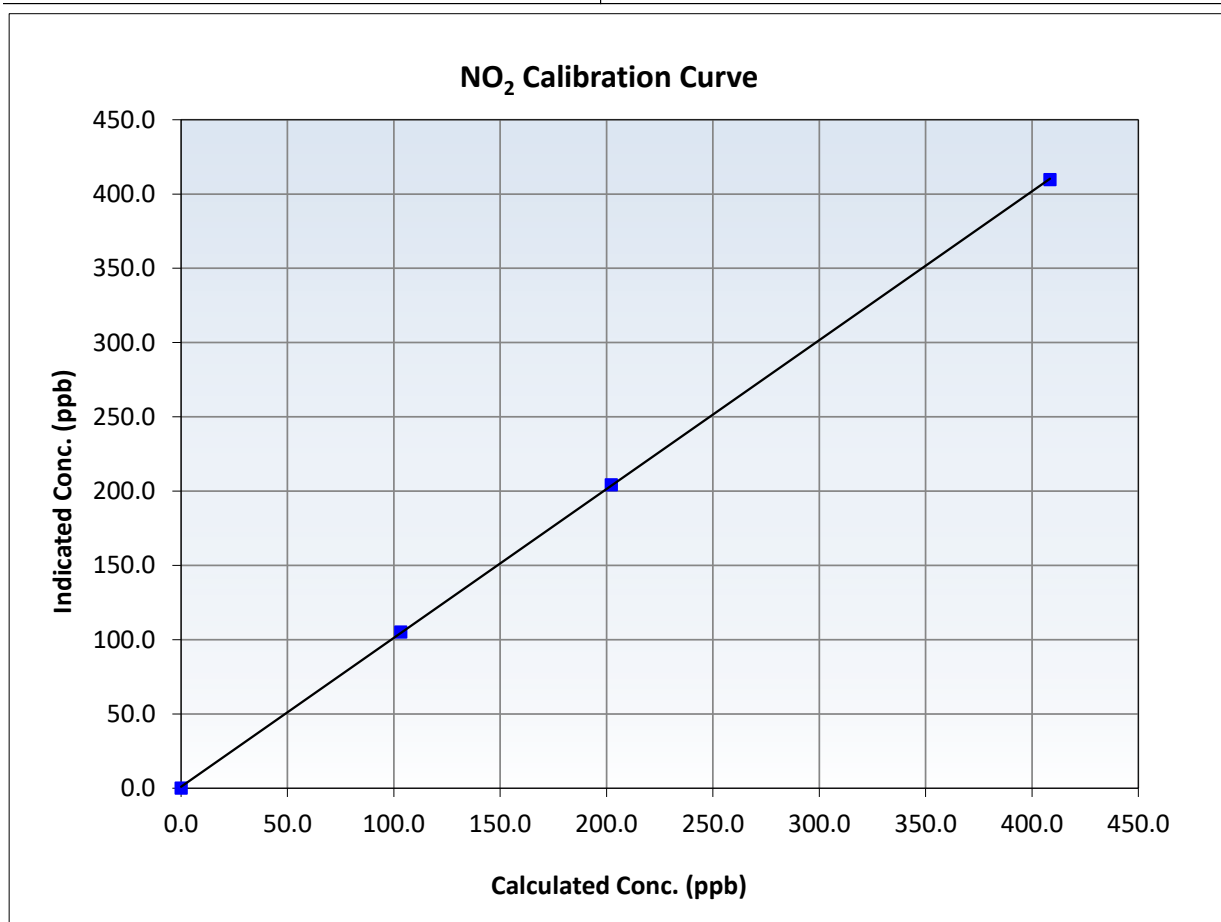
NO₂ Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 20, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	10:11	End Time (MST):	15:11
Analyzer make:	Thermo 42i	Analyzer serial #:	1172750022

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999980	<i>≥0.995</i>
408.5	409.8	0.9968	Slope	1.002000	<i>0.90 - 1.10</i>
202.2	204.3	0.9896	Intercept	1.010862	<i>+/-20</i>
103.3	105.1	0.9826			





Wood Buffalo Environmental Association

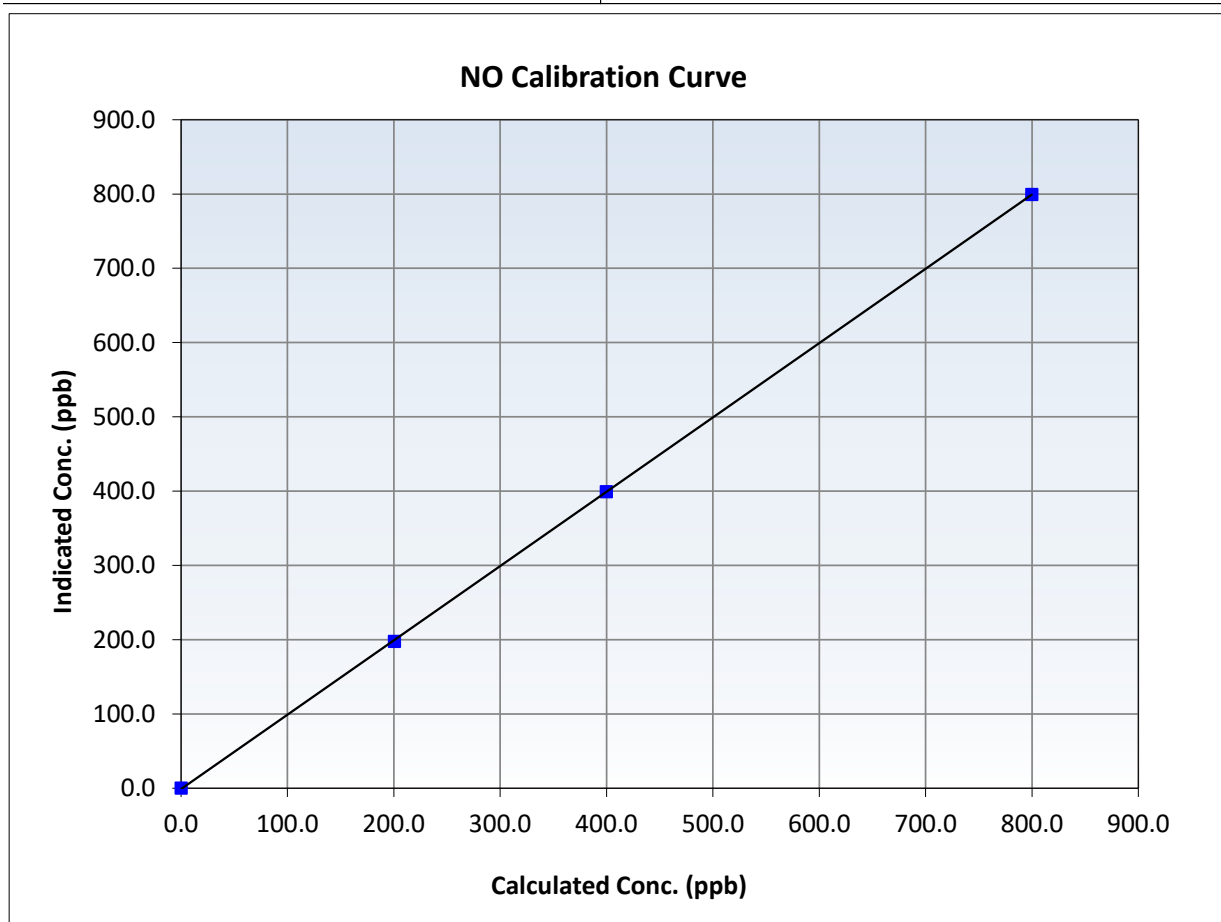
NO Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 20, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	10:11	End Time (MST):	15:11
Analyzer make:	Thermo 42i	Analyzer serial #:	1172750022

Calibration Data

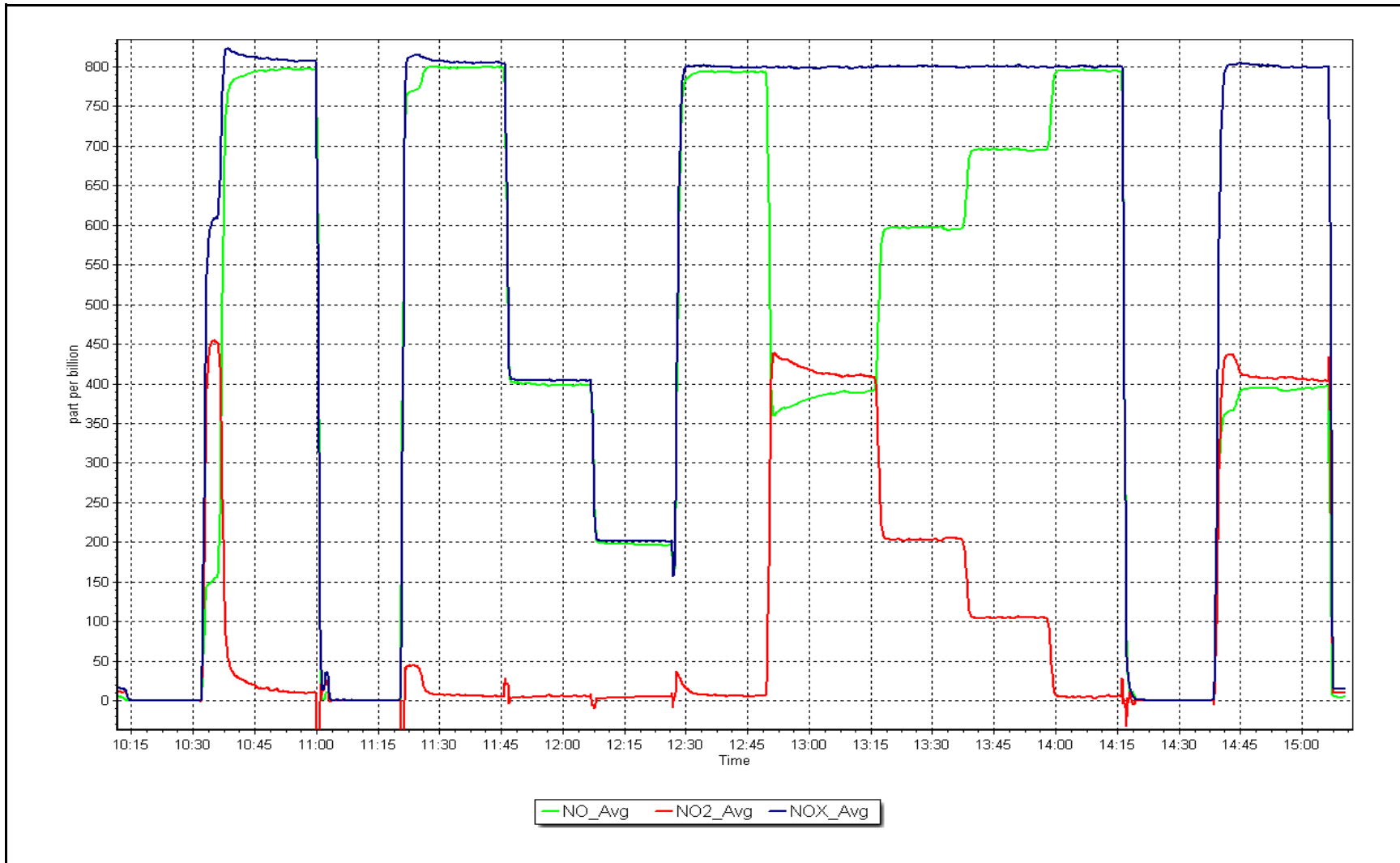
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999983	<i>≥0.995</i>
799.8	799.5	1.0004	Slope	1.000595	<i>0.90 - 1.10</i>
399.9	399.4	1.0011	Intercept	-1.085729	<i>+/-20</i>
200.5	197.6	1.0149			



NO_x Calibration Plot

Date: February 9, 2026

Location: Patricia McInnes





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Patricia McInnes	Station number:	AMS 06
Calibration Date:	February 18, 2026	Last Cal Date:	January 9, 2026
Start time (MST):	9:20	End time (MST):	12:36
Reason:	Routine		

Calibration Standards

O3 generation mode:	Photometer		
Calibrator Make/Model:	API T700	Serial Number:	3566
ZAG Make/Model:	API T701	Serial Number:	4602

Analyzer Information

Analyzer make:	Teledyne API T400	Analyzer serial #:	7046
Analyzer Range	0 - 500 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.004371	1.003686	Backgd or Offset:	2.8	2.7
Calibration intercept:	0.360000	0.480000	Coeff or Slope:	1.023	1.010

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	800.0	0.0	0.0	----
As found High point	5000	908.6	400.0	406.8	0.983
As found Mid point					
As found Low point					
Baseline Corr As found:	406.8	Previous response	402.1	*% change	1.2%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	800.0	0.0	0.3	----
High point	5000	908.1	400.0	401.7	0.996
Mid point	5000	786.8	200.0	201.8	0.991
Low point	5000	688.8	100.0	100.7	0.993
As left zero	5000	800.0	0.0	0.3	----
As left span	5000	907.0	400.0	403.8	0.991
Average Correction Factor					0.993

Notes: Sample inlet filter was changed before calibrator zero. Adjusted span only.

Calibration Performed By: Param Kaur



Wood Buffalo Environmental Association

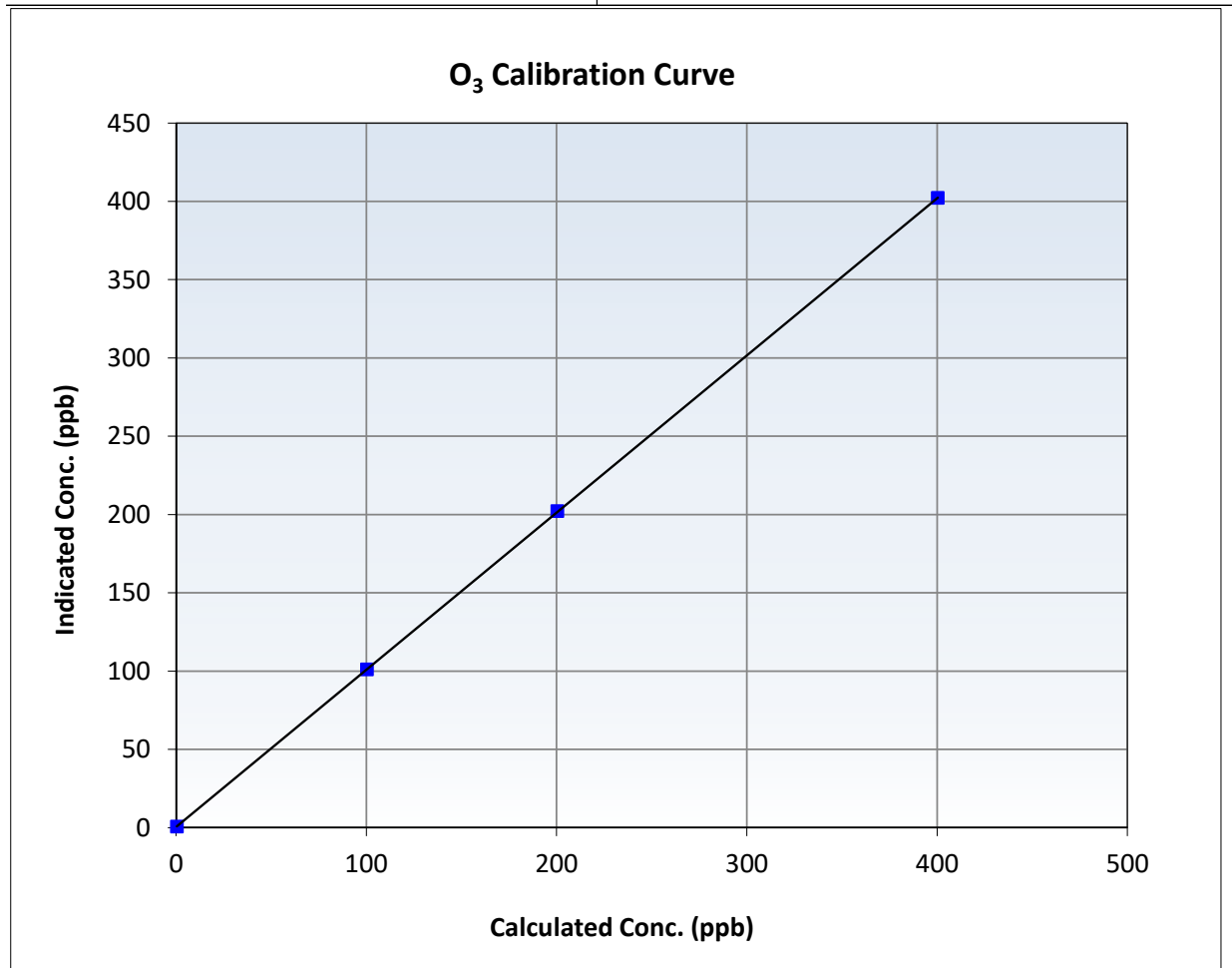
O₃ Calibration Summary

Station Information

Calibration Date:	February 18, 2026	Previous Calibration:	January 9, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	9:20	End Time (MST):	12:36
Analyzer make:	Teledyne API T400	Analyzer serial #:	7046

Calibration Data

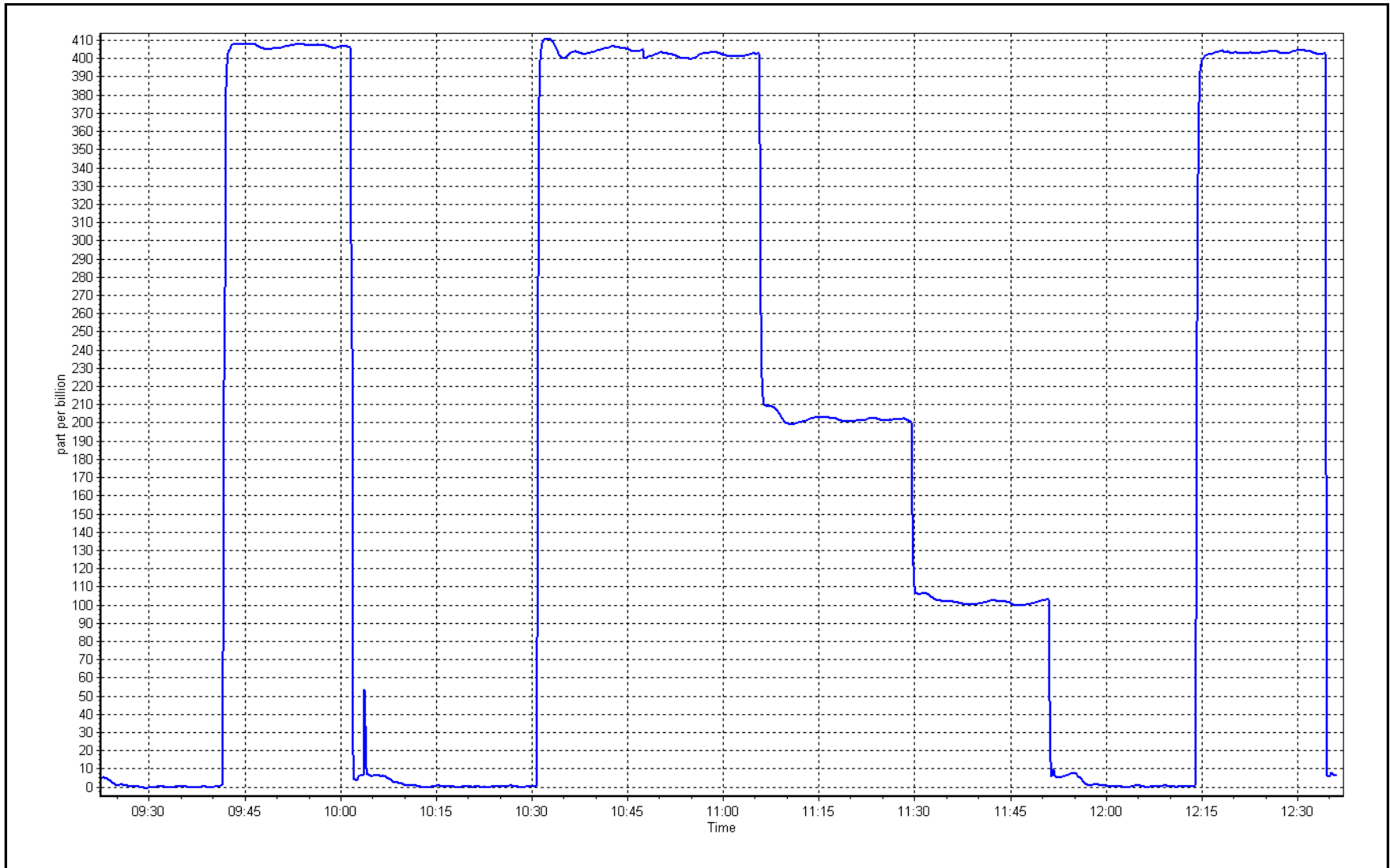
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.3	----	Correlation Coefficient	0.999995	≥0.995
400.0	401.7	0.9958	Slope	1.003686	0.90 - 1.10
200.0	201.8	0.9911	Intercept	0.480000	+/- 5
100.0	100.7	0.9930			



O₃ Calibration Plot

Date: February 18, 2026

Location: Patricia McInnes





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Patricia McInnes Station number: AMS 06
 Calibration Date: February 6, 2026 Last Cal Date: January 15, 2026
 Start time (MST): 12:01 End time (MST): 12:38

Analyzer Make: API T640 S/N: 1547
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388754
 Temp/RH standard: Alicat FP-25BT S/N: 388754

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-9.10	-9.86	-9.10	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	727.90	727.02	727.90	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	4.99	4.90	4.99	<input type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	34	----	34	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	3.80	PM w/ HEPA: _____	0.00	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: 10.9 Expiry Date: 07-16-2026
 Lot No.: 100128-050-050

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test				<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: January 15, 2026
 Date Disposable Filter Changed: January 15, 2026

Post- maintenance Zero Verification: PM w/ HEPA: _____ <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: April 4, 2025
 Date RH/T Sensor Cleaned: April 4, 2025

Verified flow, pressure, temperature and pump power. No adjustment needed. Leak check passed.

Notes:

Calibration by: Param Kaur



Wood Buffalo Environmental Association

Nt - NOX - NH3 Calibration Report

Station Information

Station Name:	Patricia McInnes	Station number:	AMS 06
NOX Cal Date:	February 20, 2026	Last Cal Date:	January 15, 2026
Start time (MST):	9:39	End time (MST):	14:03
NH3 Cal Date:	February 20, 2026	Last Cal Date:	January 15, 2026
Start time (MST):	14:15	End time (MST):	16:31
Reason:	Routine		

Calibration Standards

NOX Cal Gas Conc:	62.20	ppm	NO Gas Cylinder #:	DT0036234
NO Cal Gas Conc:	61.90	ppm	NO Cal Gas Expiry:	July 22, 2032
Removed NOX Conc:	62.20	ppm	Removed Cylinder #:	N/A
Removed NO Conc:	61.90	ppm	Removed cyl Expiry:	N/A
NOX gas Diff:			NO gas Diff:	
NH3 Cal Gas Conc:	77.5	ppm	NH3 Gas Cylinder #:	CC15099
Removed NH3 Conc:	77.5	ppm	NH3 Cal Gas Expiry:	September 10, 2026
NH3 gas Diff:			Removed Cylinder #:	
Calibrator Model:	API T700		Serial Number:	3566
ZAG make/model:	API T701		Serial Number:	4602

Analyzer Information

Analyzer model:	API T201	Analyzer serial #:	215
Converter model:	API T501	Converter serial #:	147
NH3 Range (ppb):	0 - 2000 ppb	Reaction cell Press:	5.60
NOX Range (ppb):	0 - 1000 ppb	Sample Flow:	335

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coefficient:	1.033	1.000	Nt coefficient:	1.008	0.995
NOX coefficient:	1.028	1.007	NO bkgrnd:	0.2	0.5
NO2 coefficient:	1.000	1.000	NOX bkgrnd:	-0.1	0.7
NH3 coefficient:	0.943	0.943	Nt bkgrnd:	3.5	4.4

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.994480	1.000221
NO _x Cal Offset:	1.092455	-1.826778
NO Cal Slope:	0.993953	0.993188
NO Cal Offset:	0.514191	-2.743020
NO ₂ Cal Slope:	1.002144	1.010796
NO ₂ Cal Offset:	-0.241257	1.133098
NH3 Cal Slope:	0.986924	0.997697
NH3 Cal Offset:	5.930471	0.289568
Nt Cal Slope:	0.990412	1.001373
Nt Cal Offset:	6.401550	-0.019398



Wood Buffalo Environmental Association

NO_x - NO - NO₂ Calibration Report

NO_x / NO / Nt As Found Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated Nt concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated Nt concentration (ppb) (Ic)	Baseline corr NO _x Correction factor (Cc/Ic) <i>Limit = 0.9 - 1.0</i>	Baseline corr NO Correction factor (Cc/Ic) <i>Limit = 0.9 - 1.0</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.1	-0.1	-1.1	----	----
As found span	4935	64.6	803.7	799.8	803.7	825.9	820.3	822.2	0.9731	0.9750
AF GPT span										
new NO cyl rp										

Baseline Corr As Fd Nt = 823.3 ppb NO_x = 825.8 ppb NO = 820.4 ppb
 Previous Response Nt = 802.38 ppb NO_x = 800.3 ppb NO = 795.5 ppb

*Percent Change Nt_(NO) = 2.5%

*Percent Change NO_x = 3.1%

*Percent Change NO = 3.0%

**NO_x Δ (NO to GPT response) =

* * = > +/-2% difference initiates investigation

* = > +/-5% change initiates investigation

NO_x / NO / Nt Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated Nt concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated Nt concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibration zero	5000	0.0	0.0	0.0	0.0	-0.5	0.0	-0.6	----	----
High point	4935	64.6	803.7	799.8	803.7	802.4	792.5	800.9	1.0016	1.0092
Mid point	4968	32.3	401.8	399.9	401.8	400.3	394.5	400.7	1.0037	1.0136
Low point	4984	16.2	201.5	200.5	201.5	197.8	192.7	198.1	1.0188	1.0407
Average Correction Factor									1.0080	1.0212

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found zero	----	----	0.0	0.2	----	----
Calibration zero	----	----	0.0	-0.5	----	----
High GPT point (400 ppb O3)	782.6	377.5	409.0	413.2	0.9898	101.0%
Mid GPT point (200 ppb O3)	782.6	592.2	194.3	200.1	0.9709	103.0%
Low GPT point (100 ppb O3)	782.6	682.2	104.3	106.9	0.9755	102.5%
Average Correction Factor					0.9787	102.2%



Wood Buffalo Environmental Association NH₃ - N_T Calibration Report

NH₃ As Found Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated Nt concentration (ppb) (Cc)	Calculated NOX concentration (ppb) (Cc)	Calculated NH3 concentration (ppb) (Cc)	Indicated Nt concentration (ppb) (Ic)	Indicated NOX concentration (ppb) (Ic)	Indicated NH3 concentration (ppb) (Ic)	Baseline corr Nt Correction factor (Cc/(Ic-zero)) <i>Limit = 0.9 - 1.1</i>	Baseline corr NH3 Correction factor (Cc/(Ic-zero)) <i>Limit = 0.9 - 1.1</i>
As found zero	5000	0.0	0.0	0.0	0.0	-1.1	0.1	-1.2	----	----
AF High point	3419	81.3	1800.1	0.0	1800.1	1801.0	6.3	1794.7	0.999	1.002
AF Mid point										
AF Low point										
new NH3 cyl rp										
Baseline Corr As Fd	Nt = 1802.1 ppb	NH3 = 1795.9 ppb							*Percent Change	Nt _(NH3) = 0.7%
Previous Response	Nt = 1789.2 ppb	NH3 = 1782.5 ppb							*Percent Change	NH3 = 0.7%

* = > +/-5% change initiates investigation

NH₃ Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated Nt concentration (ppb) (Cc)	Calculated NOX concentration (ppb) (Cc)	Calculated NH3 concentration (ppb) (Cc)	Indicated Nt concentration (ppb) (Ic)	Indicated NOX concentration (ppb) (Ic)	Indicated NH3 concentration (ppb) (Ic)	Nt Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NH3 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibration zero	5000	0.0	0.0	0.0	0.0	-0.6	-0.5	-0.1	----	----
High point	3419	81.3	1800.1	0.0	1800.1	1801.0	6.3	1794.7	0.999	1.003
Mid point	3455	45.2	1000.8	0.0	1000.8	1005.5	3.3	1002.3	0.995	0.999
Low point	3477	22.6	500.5	0.0	500.5	499.9	1.9	498.0	1.001	1.005
								Average Correction Factor	0.9987	1.0022
NH3 Previous Converter Efficiency =	95.0 %									
NH3 Current Converter Efficiency =	94.3 %									

Notes: Changed the inlet filter after as founds. Zero & span adjusted for NOx and TNx. No adjustment made for NH3.

Calibration Performed By: Param Kaur



Wood Buffalo Environmental Association

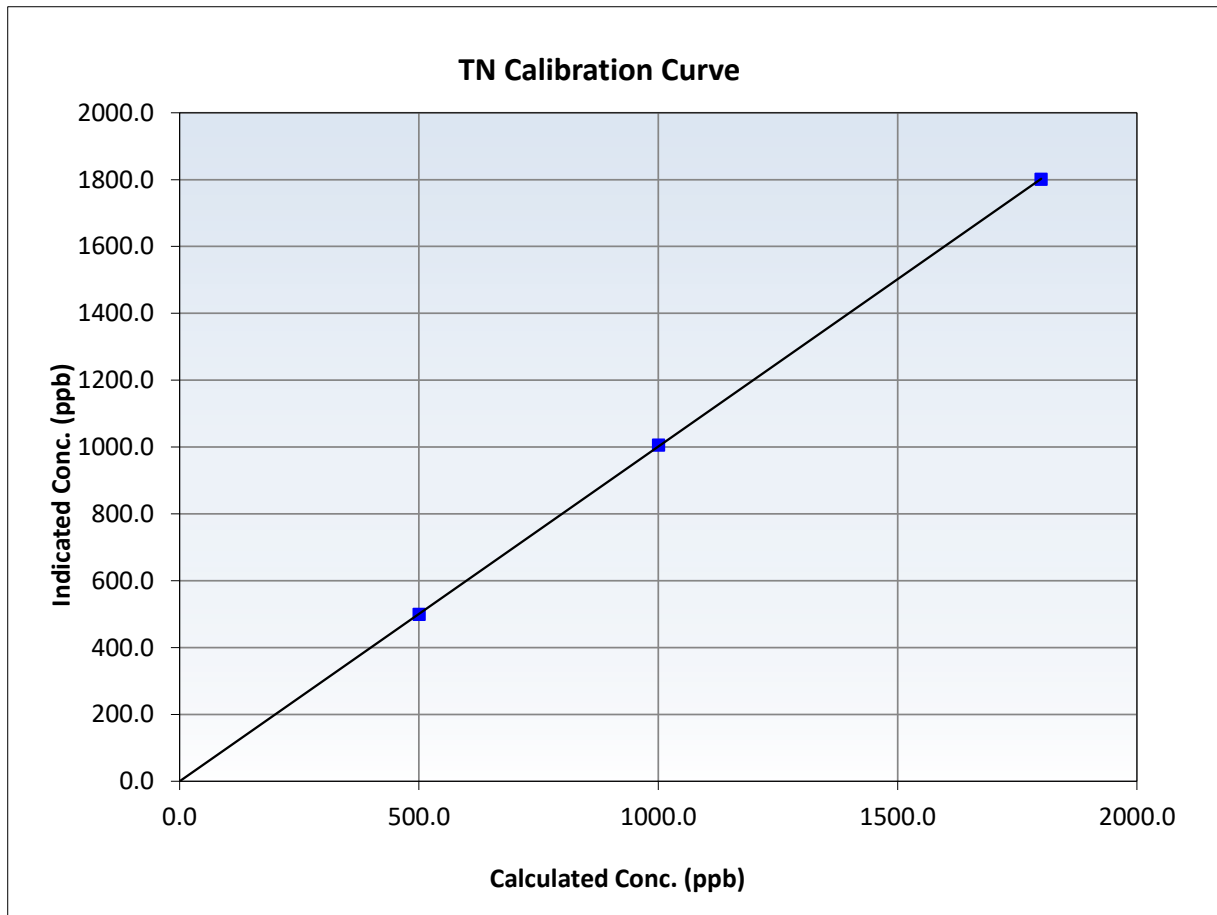
Nt Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 15, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	9:39	End Time (MST):	14:03
Analyzer make:	API T201	Analyzer serial #:	215

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.6	----	Correlation Coefficient	0.999991	≥ 0.995
1800.1	1801.0	0.9995	Slope	1.001373	0.90 - 1.10
1000.8	1005.5	0.9953	Intercept	-0.019398	± 20
500.5	499.9	1.0012			





Wood Buffalo Environmental Association

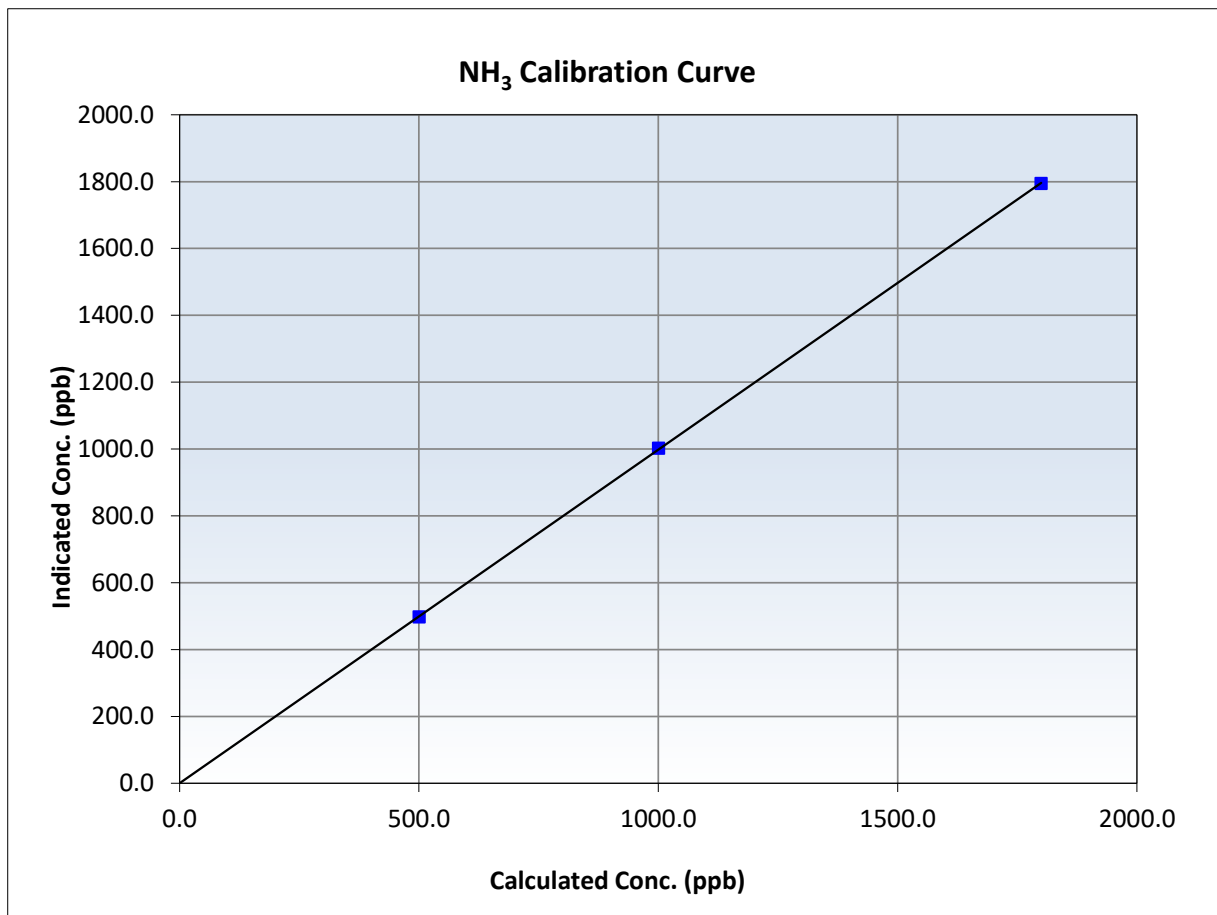
NH₃ Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 15, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	9:39	End Time (MST):	14:03
Analyzer make:	API T201	Analyzer serial #:	215

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.1	----	Correlation Coefficient	0.999990	≥0.995
1800.1	1794.7	1.0030	Slope	0.997697	0.90 - 1.10
1000.8	1002.3	0.9985	Intercept	0.289568	+/-20
500.5	498.0	1.0050			





Wood Buffalo Environmental Association

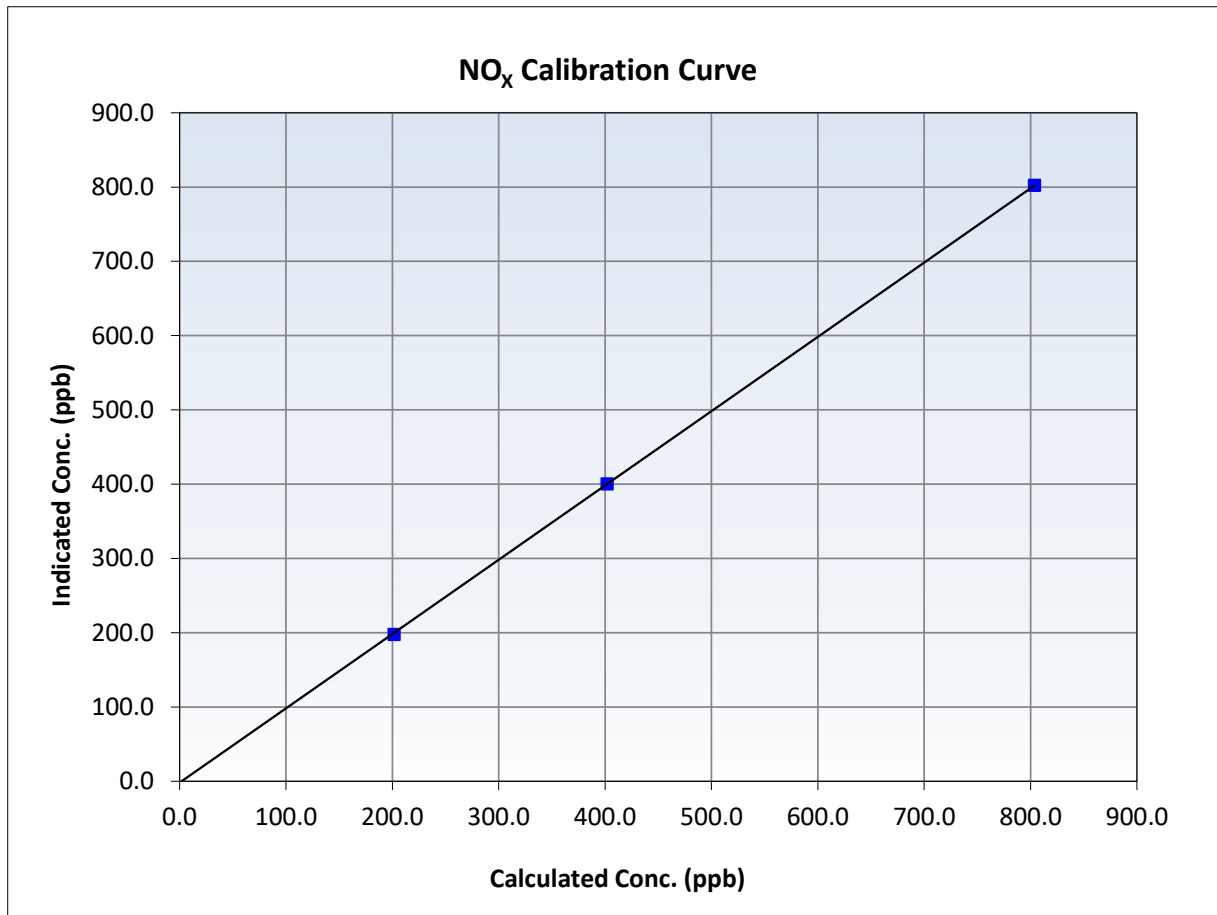
NO_x Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 15, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	9:39	End Time (MST):	14:03
Analyzer make:	API T201	Analyzer serial #:	215

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.5	----	Correlation Coefficient	0.999984	≥0.995
803.7	802.4	1.0016	Slope	1.000221	0.90 - 1.10
401.8	400.3	1.0037	Intercept	-1.826778	+/-20
201.5	197.8	1.0188			





Wood Buffalo Environmental Association

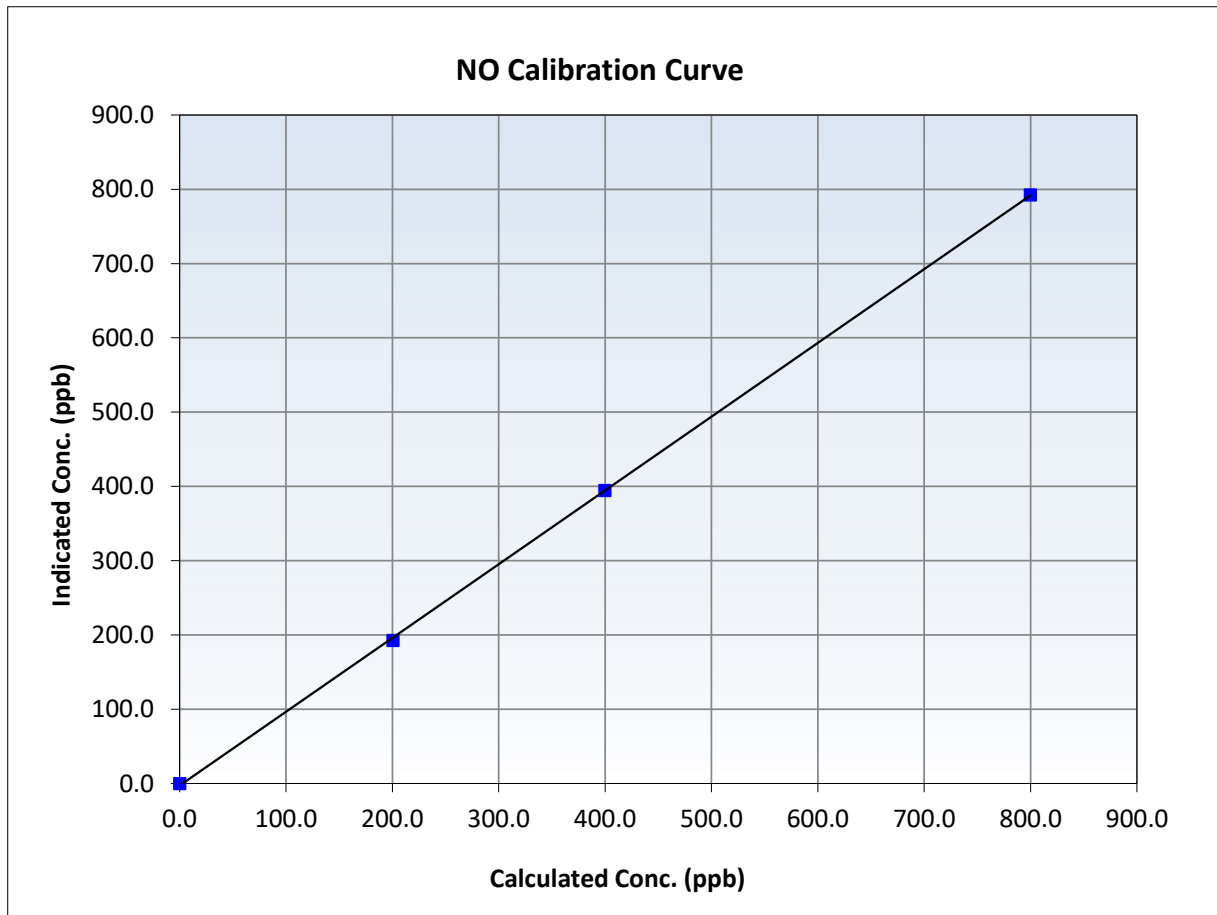
NO Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 15, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	9:39	End Time (MST):	14:03
Analyzer make:	API T201	Analyzer serial #:	215

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999935	<i>≥0.995</i>
799.8	792.5	1.0092	Slope	0.993188	<i>0.90 - 1.10</i>
399.9	394.5	1.0136	Intercept	-2.743020	<i>+/-20</i>
200.5	192.7	1.0407			





Wood Buffalo Environmental Association

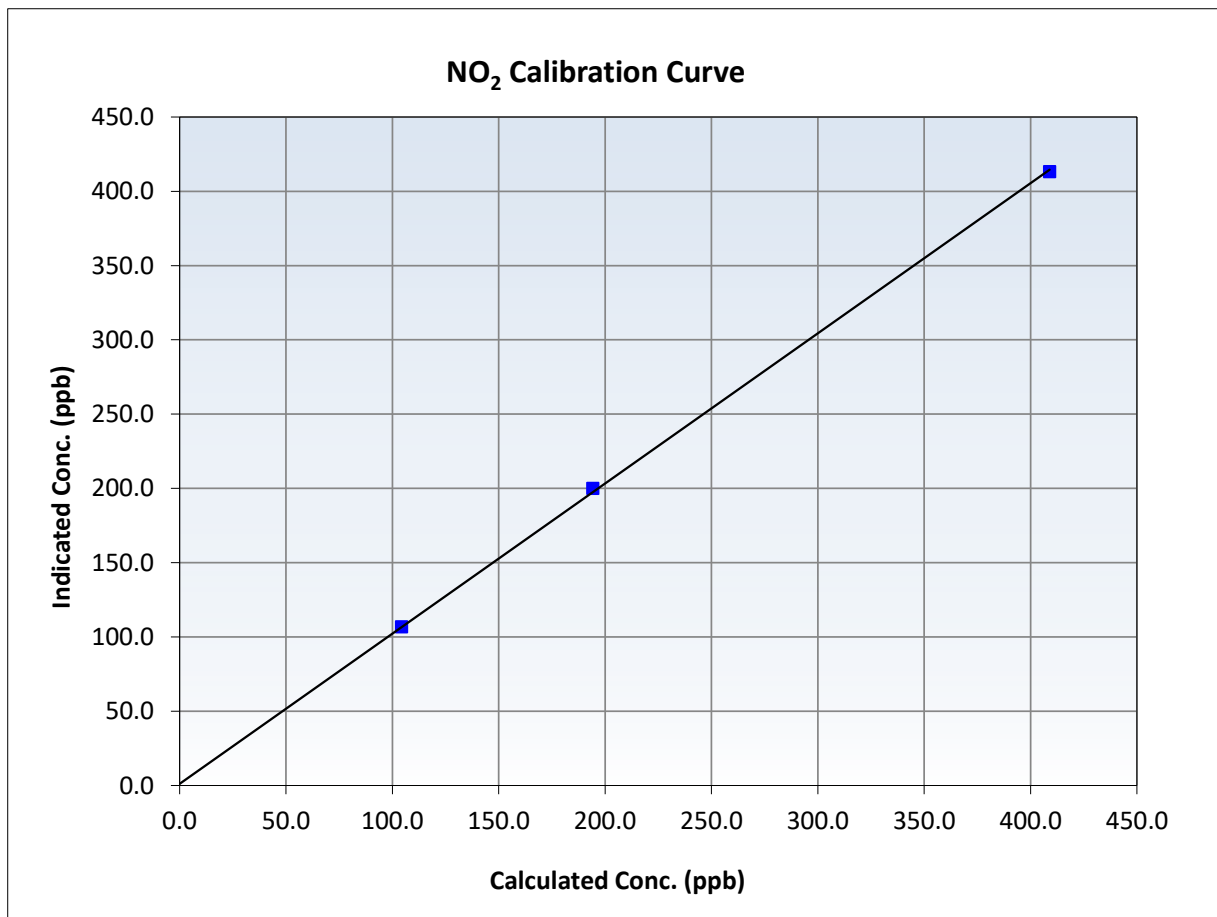
NO₂ Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 15, 2026
Station Name:	Patricia McInnes	Station Number:	AMS 06
Start Time (MST):	9:39	End Time (MST):	14:03
Analyzer make:	API T201	Analyzer serial #:	215

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.5	----	Correlation Coefficient	0.999878	≥0.995
409.0	413.2	0.9898	Slope	1.010796	0.90 - 1.10
194.3	200.1	0.9709	Intercept	1.133098	+/-20
104.3	106.9	0.9755			



NO_x Calibration Plot

Date: February 20, 2026

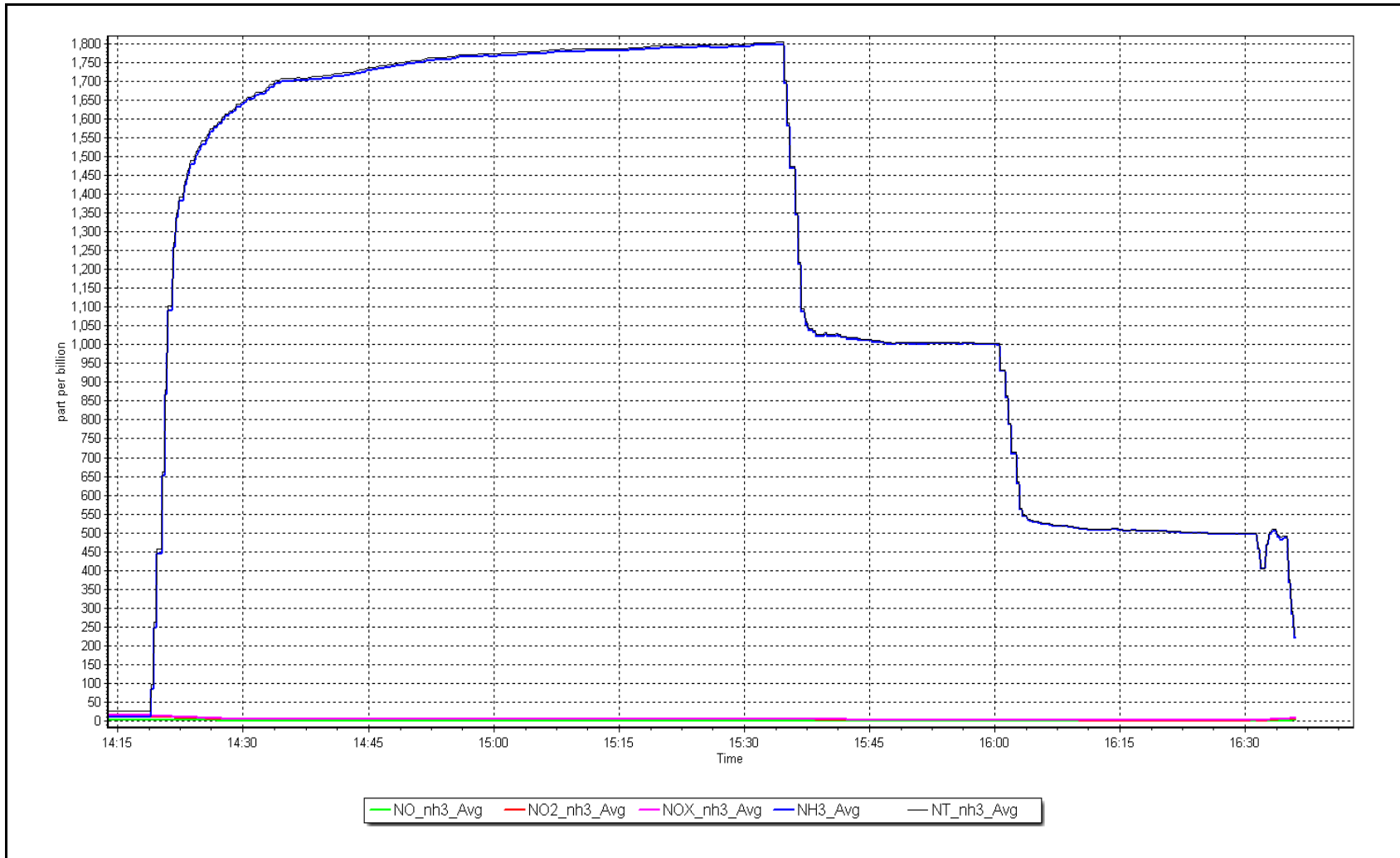
Location: Patricia McInnes



NH₃ Calibration Plot

Date: February 20, 2026

Location: Patricia McInnes





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS07 ATHABASCA VALLEY FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Athabasca Valley	Station number:	AMS07
Calibration Date:	February 4, 2026	Last Cal Date:	January 7, 2026
Start time (MST):	11:15	End time (MST):	14:45
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.06	ppm	Cal Gas Exp Date:	March 10, 2031
Cal Gas Cylinder #:	CC320556			
Removed Cal Gas Conc:	50.06	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Model:	API T700		Serial Number:	3805
Zero Air Gen Model:	API 701H		Serial Number:	198

Analyzer Information

Analyzer make:	Thermo 43i-LTE	Serial Number:	1507864683
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.001264	1.004283	Backgd or Offset:	2.79	2.79
Calibration intercept:	2.403832	2.223255	Coeff or Slope:	0.874	0.874

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4920	79.8	799.0	800.0	0.999
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	799.9	Previous response	802.4	*% change	-0.3%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.2	----
High point	4920	79.8	799.0	803.1	0.995
Mid point	4960	39.9	399.5	406.0	0.984
Low point	4980	20.0	200.2	204.3	0.980
As left zero	5000	0.0	0.0	0.2	----
As left span	4920	79.8	799.0	801.8	0.996
Average Correction Factor:					0.986

Notes: No adjustment needed.

Calibration Performed By: Aswin Sasi Kumar



Wood Buffalo Environmental Association

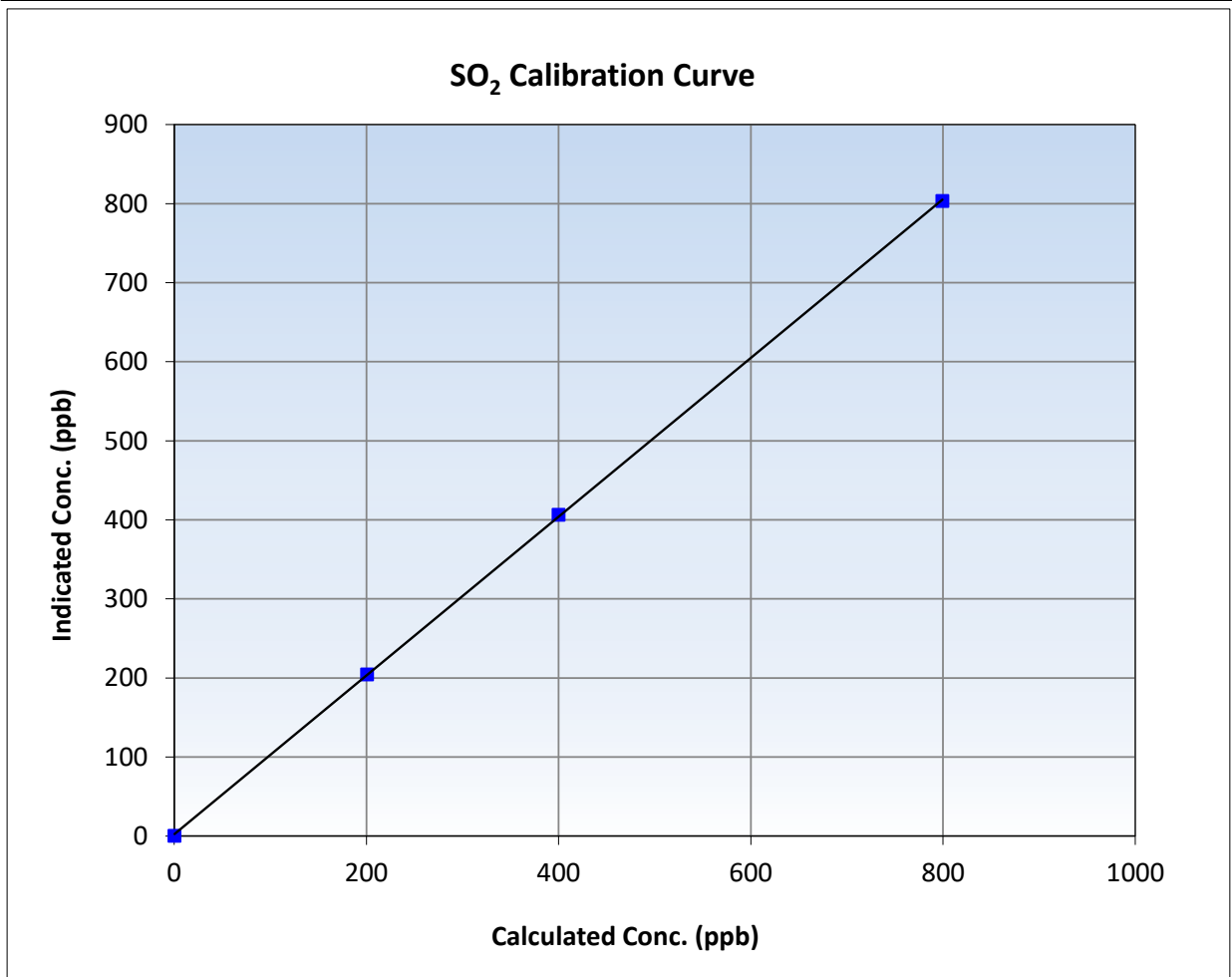
SO₂ Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	January 7, 2026
Station Name:	Athabasca Valley	Station Number:	AMS07
Start Time (MST):	11:15	End Time (MST):	14:45
Analyzer make:	Thermo 43i-LTE	Analyzer serial #:	1507864683

Calibration Data

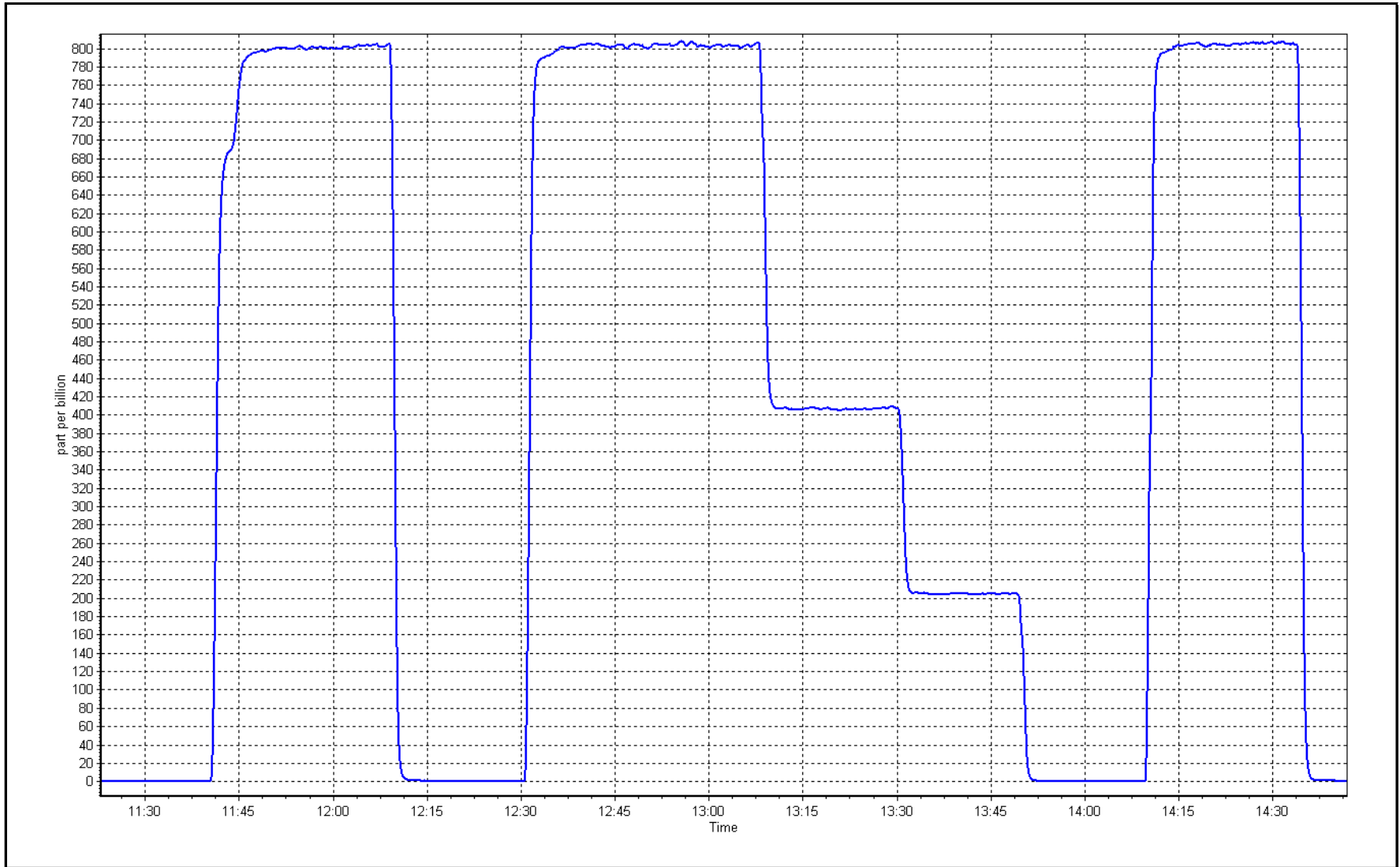
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>
0.0	0.2	----	Correlation Coefficient	0.999960
799.0	803.1	0.9949	Slope	1.004283
399.5	406.0	0.9840	Intercept	2.223255
200.2	204.3	0.9801		
				≥0.995
				0.90 - 1.10
				+/-30



SO2 Calibration Plot

Date: February 4, 2026

Location: Athabasca Valley





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name:	Athabasca Valley	Station number:	AMS07
Calibration Date:	February 19, 2026	Last Cal Date:	January 6, 2026
Start time (MST):	11:35	End time (MST):	16:32
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	5.25	ppm	Cal Gas Exp Date:	January 3, 2026
Cal Gas Cylinder #:	CC504080			
Removed Cal Gas Conc:	5.25	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Make/Model:	API T700		Serial Number:	3805
ZAG Make/Model:	API T701H		Serial Number:	198

Analyzer Information

Analyzer make:	Thermo 43i LTE	Analyzer serial #:	1180540018
Converter make:	CDN-101	Converter serial #:	551
Analyzer Range	0 - 100 ppb	Converter Temp:	840 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.001942	1.004249	Backgd or Offset:	2.6	2.6
Calibration intercept:	0.037849	0.257817	Coeff or Slope:	0.884	0.887

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4925	75.5	79.3	78.5	1.010
As found Mid point	4962	37.7	39.6	39.3	1.007
As found Low point	4981	18.9	19.8	19.6	1.013
New cylinder response					
Baseline Corr As found:	78.5	Prev response:	79.46	*% change:	-1.2%
Baseline Corr 2nd AF pt:	39.3	AF Slope:	0.990690	AF Intercept:	-0.002143
Baseline Corr 3rd AF pt:	19.6	AF Correlation:	0.999997	<i>* = > +/-5% change initiates investigation</i>	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.1	----
High point	4925	75.5	79.3	79.8	0.994
Mid point	4962	37.7	39.6	40.2	0.985
Low point	4981	18.9	19.9	20.3	0.978
As left zero	5000	0.0	0.0	0.5	----
As left span	4925	75.5	79.3	79.3	1.000
SO2 Scrubber Check	4920	79.2	792.1	0.2	----
Date of last scrubber change:	8-Aug-25		Ave Corr Factor		0.986
Date of last converter efficiency test:	Friday, April 22, 2022				

Notes: Span adjusted.

Calibration Performed By: Aswin Sasi Kumar



Wood Buffalo Environmental Association

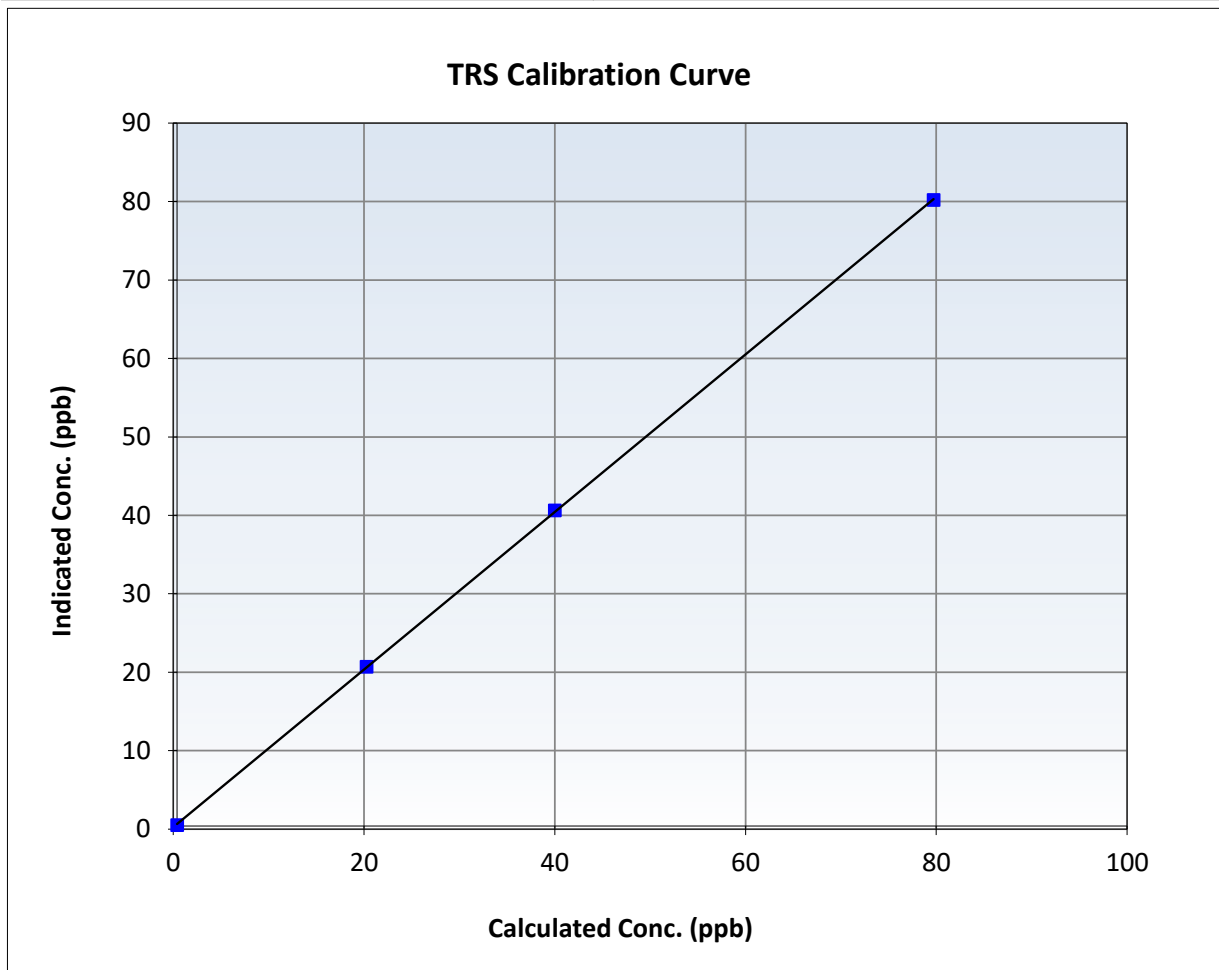
TRS Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 6, 2026
Station Name:	Athabasca Valley	Station Number:	AMS07
Start Time (MST):	11:35	End Time (MST):	16:32
Analyzer make:	Thermo 43i LTE	Analyzer serial #:	1180540018

Calibration Data

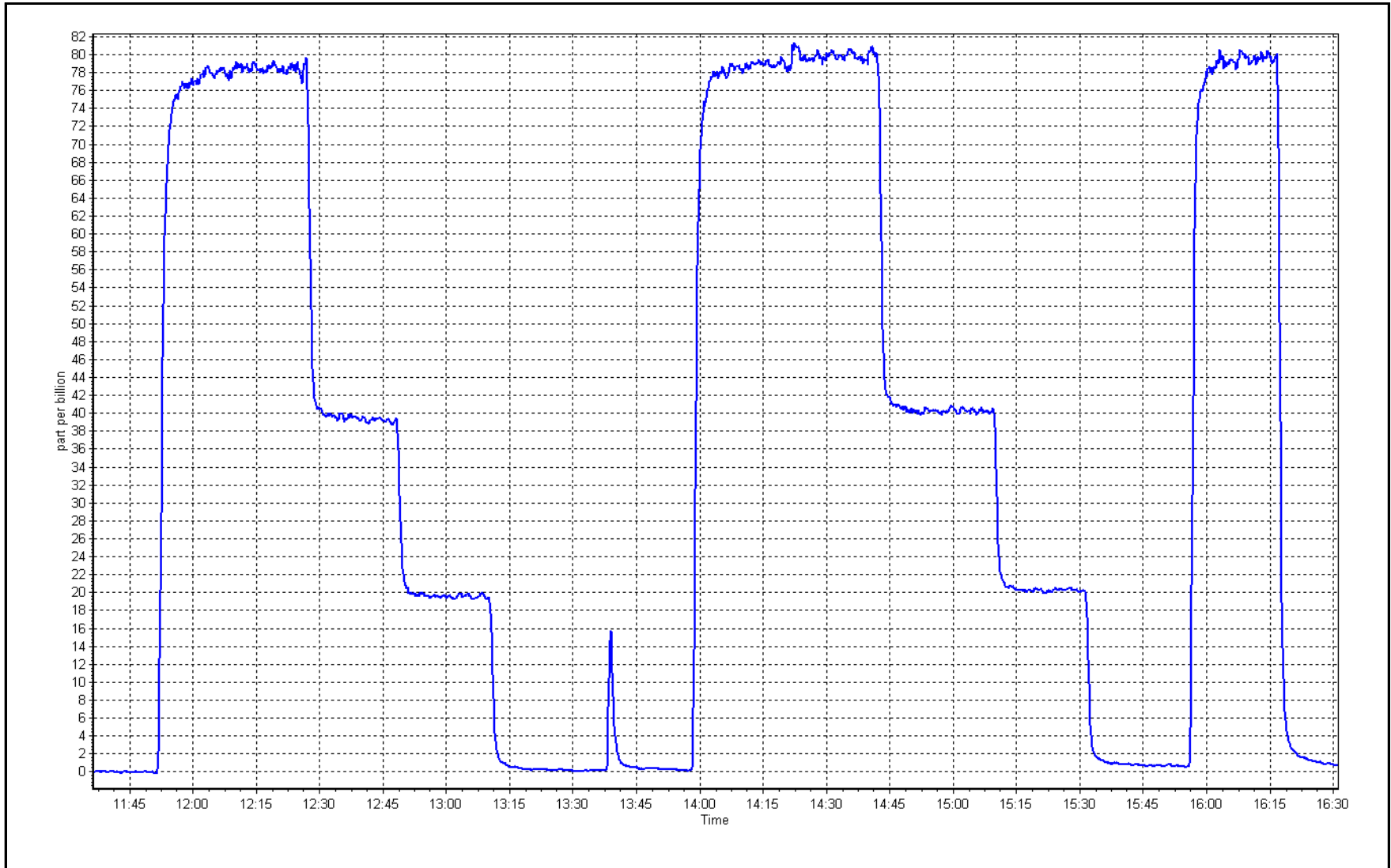
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.1	----	Correlation Coefficient	0.999979	≥ 0.995
79.3	79.8	0.9939	Slope	1.004249	$0.90 - 1.10$
39.6	40.2	0.9853	Intercept	0.257817	± 3
19.9	20.3	0.9782			



TRS Calibration Plot

Date: February 19, 2026

Location: Athabasca Valley





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Athabasca Valley	Station number:	AMS 07
Calibration Date:	February 4, 2026	Last Cal Date:	January 7, 2026
Start time (MST):	11:15	End time (MST):	14:45
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC320556	Cal Gas Expiry Date:	March 10, 2031
CH4 Cal Gas Conc.	496.0 ppm	CH4 Equiv Conc.	1059.8 ppm
C3H8 Cal Gas Conc.	205.0 ppm		
Removed Gas Cert:	NA	Removed Gas Expiry:	NA
Removed CH4 Conc.	496.0 ppm	CH4 Equiv Conc.	1059.8 ppm
Removed C3H8 Conc.	205.0 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	3805
Zero Air Gen model:	Teledyne API T701H	Serial Number:	198

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1331259520
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.78E-04	2.78E-04	NMHC SP Ratio:	5.52E-05	5.49E-05
CH4 Retention time:	14.2	14.4	NMHC Peak Area:	162932	164069
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	---
As found High point	4920	79.8	16.91	17.05	0.992
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	17.05	Prev response	16.95	*% change	0.6%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	---
High point	4920	79.8	16.91	16.94	0.998
Mid point	4960	39.9	8.46	8.45	1.001
Low point	4980	20.0	4.24	4.26	0.996
As left zero	5000	0.0	0.00	0.00	---
As left span	4920	79.8	16.91	16.90	1.001
Average Correction Factor					0.998

Notes:

Span adjusted.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.8	9.00	9.15	0.984
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	9.15	Prev response	9.03	*% change	1.3%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	79.8	9.00	9.02	0.997
Mid point	4960	39.9	4.50	4.50	0.999
Low point	4980	20.0	2.26	2.27	0.993
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.8	9.00	9.02	0.998
Average Correction Factor					0.997

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.8	7.92	7.90	1.002
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.90	Prev response	7.92	*% change	-0.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	79.8	7.92	7.92	1.000
Mid point	4960	39.9	3.96	3.95	1.003
Low point	4980	20.0	1.98	1.99	0.999
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.8	7.92	7.88	1.004
Average Correction Factor					1.001

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	1.001079	1.001322
THC Cal Offset:	0.018446	-0.000349
CH ₄ Cal Slope:	0.999765	1.000052
CH ₄ Cal Offset:	0.007657	-0.002339
NMHC Cal Slope:	1.002579	1.002363
NMHC Cal Offset:	0.010188	0.001790

Calibration Performed By: Aswin Sasi Kumar



Wood Buffalo Environmental Association

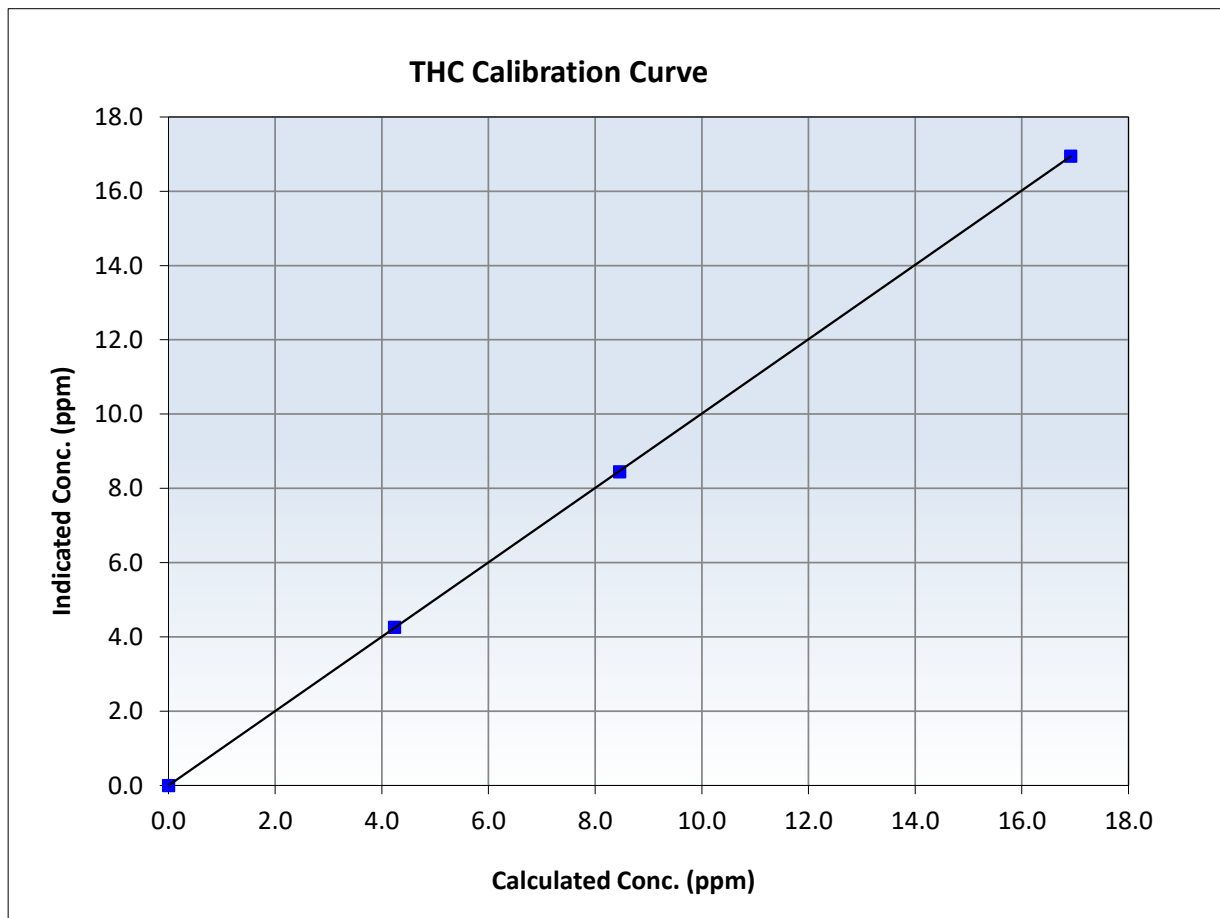
THC Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	January 7, 2026
Station Name:	Athabasca Valley	Station Number:	AMS 07
Start Time (MST):	11:15	End Time (MST):	14:45
Analyzer make:	Thermo 55i	Analyzer serial #:	1331259520

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999996	<i>≥0.995</i>
16.91	16.94	0.9983	Slope	1.001322	<i>0.90 - 1.10</i>
8.46	8.45	1.0011	Intercept	-0.000349	<i>+/-0.5</i>
4.24	4.26	0.9958			





Wood Buffalo Environmental Association

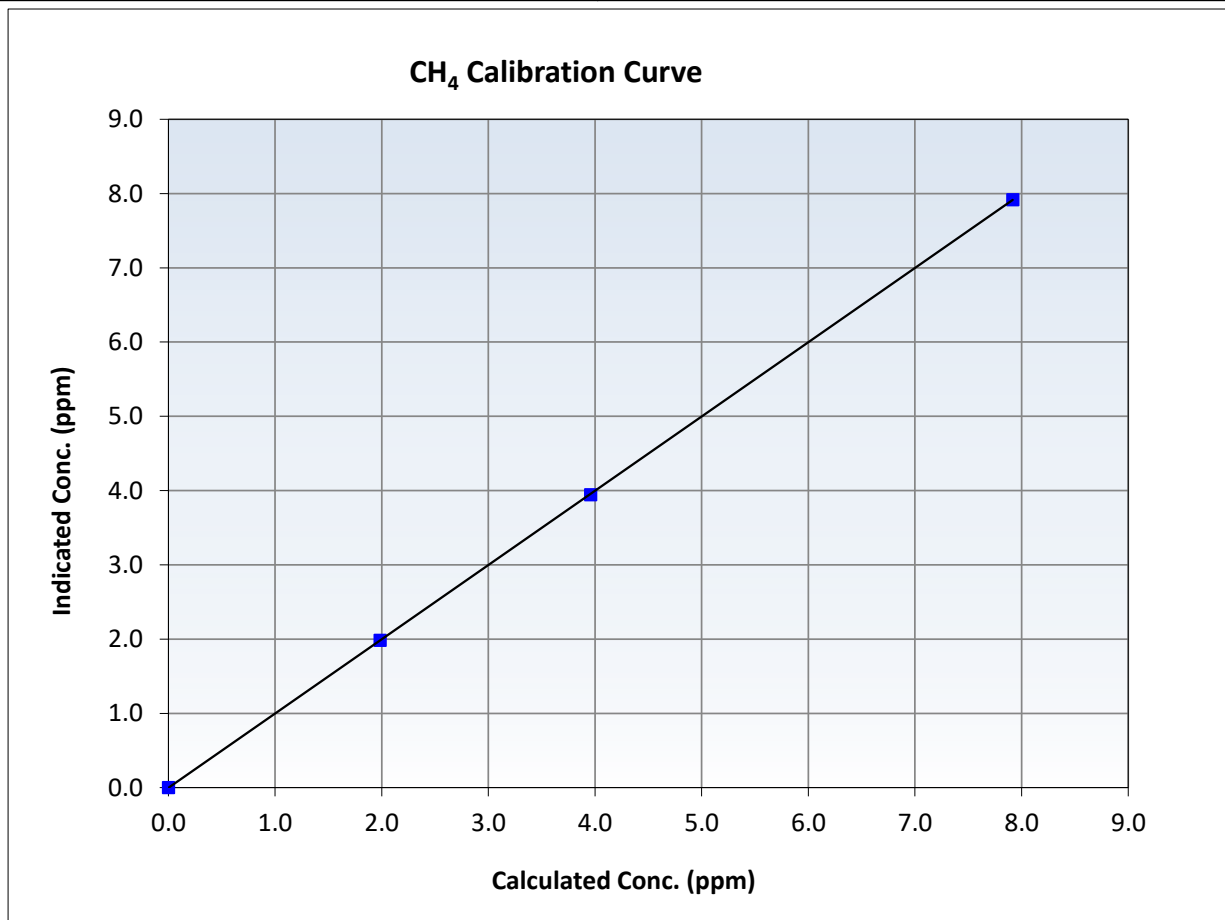
CH₄ Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	January 7, 2026
Station Name:	Athabasca Valley	Station Number:	AMS 07
Start Time (MST):	11:15	End Time (MST):	14:45
Analyzer make:	Thermo 55i	Analyzer serial #:	1331259520

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999995	<i>≥0.995</i>
7.92	7.92	0.9997	Slope	1.000052	<i>0.90 - 1.10</i>
3.96	3.95	1.0033	Intercept	-0.002339	<i>+/-0.5</i>
1.98	1.99	0.9990			





Wood Buffalo Environmental Association

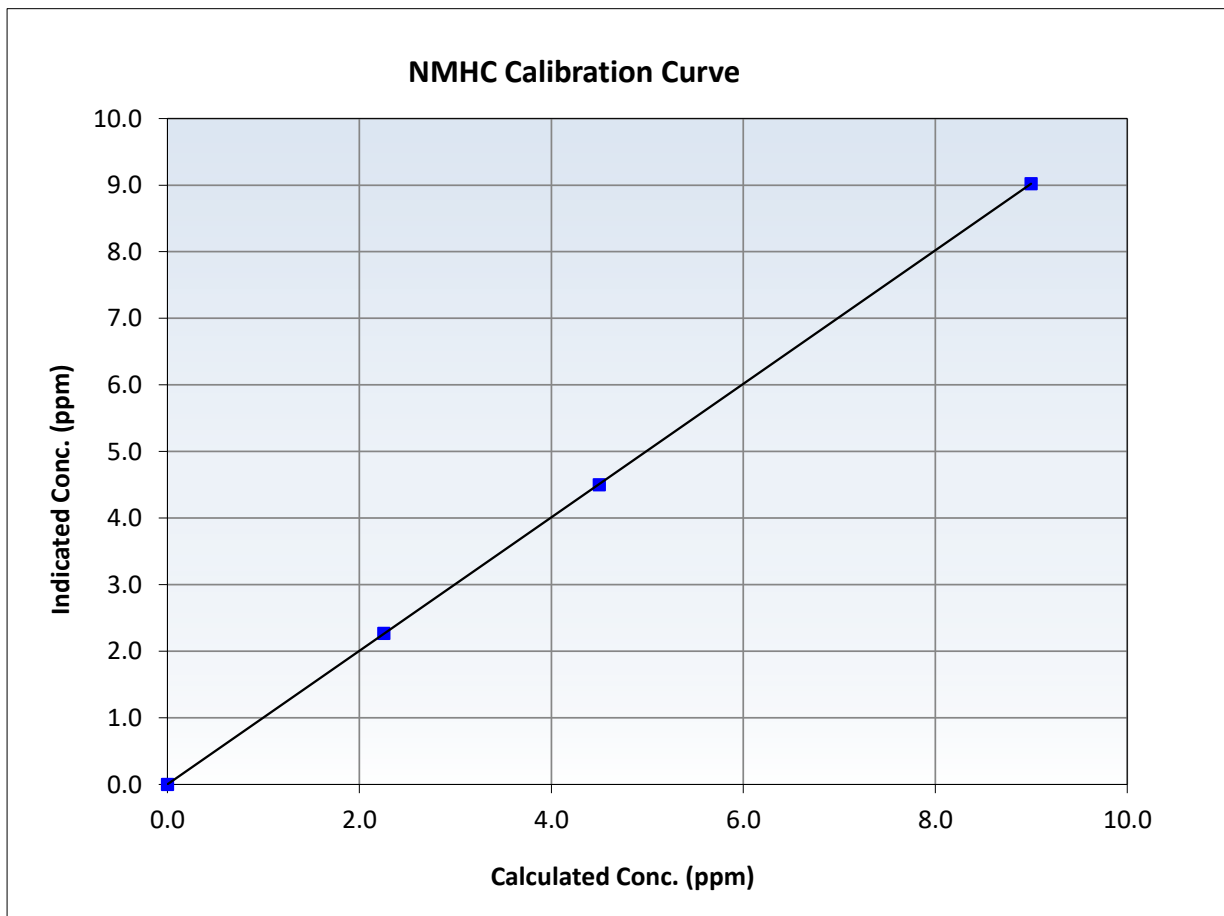
NMHC Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	January 7, 2026
Station Name:	Athabasca Valley	Station Number:	AMS 07
Start Time (MST):	11:15	End Time (MST):	14:45
Analyzer make:	Thermo 55i	Analyzer serial #:	1331259520

Calibration Data

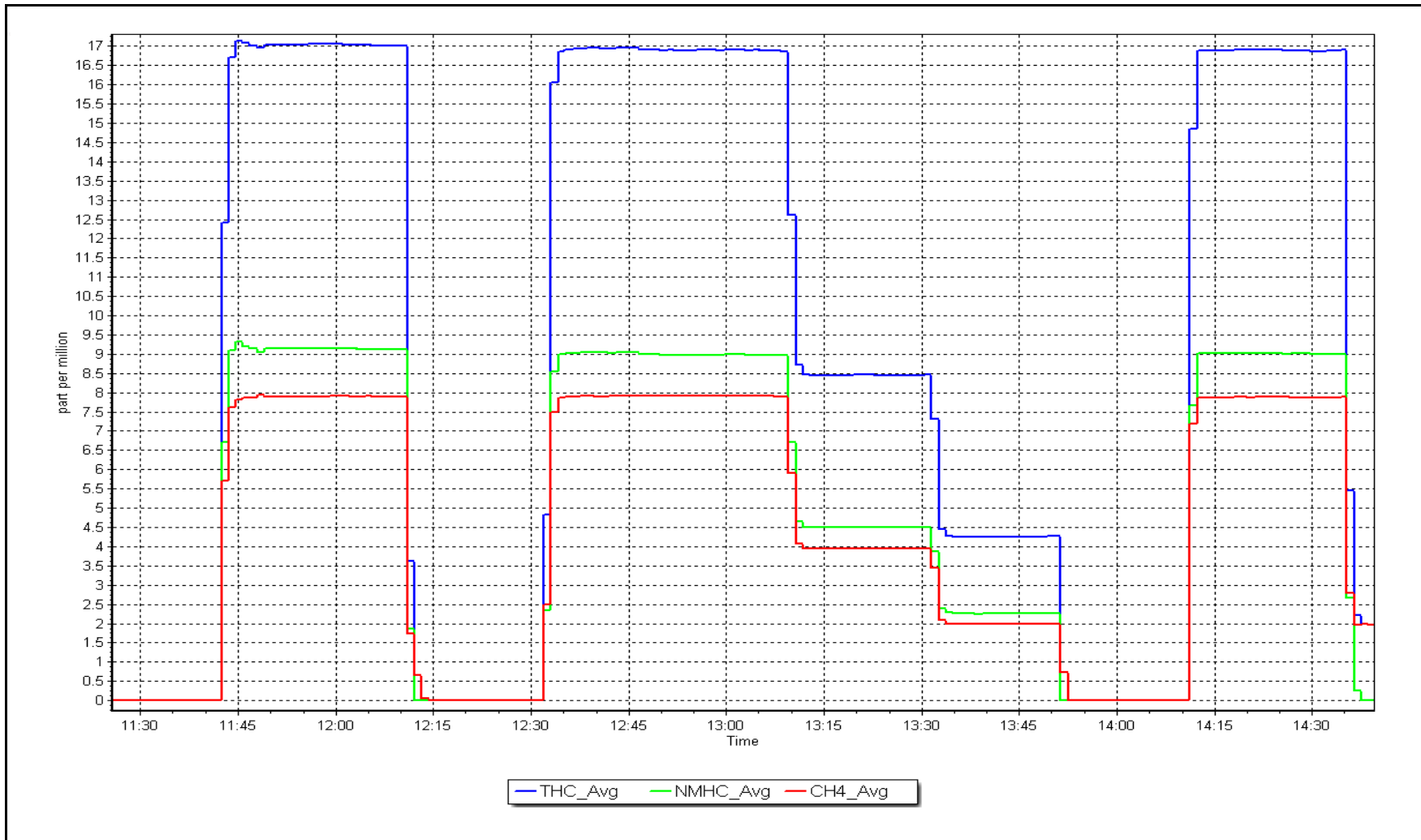
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999997	<i>≥0.995</i>
9.00	9.02	0.9972	Slope	1.002363	<i>0.90 - 1.10</i>
4.50	4.50	0.9991	Intercept	0.001790	<i>+/-0.5</i>
2.26	2.27	0.9934			



NMHC Calibration Plot

Date: February 4, 2026

Location: Athabasca Valley





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Athabasca Valley	Station number:	AMS 07
Calibration Date:	February 25, 2026	Last Cal Date:	February 4, 2026
Start time (MST):	11:00	End time (MST):	12:20
Reason:	Cylinder Change		

Calibration Standards

Gas Cert Reference:	CC320556	Cal Gas Expiry Date:	March 10, 2031
CH4 Cal Gas Conc.	496.0 ppm	CH4 Equiv Conc.	1059.8 ppm
C3H8 Cal Gas Conc.	205.0 ppm		
Removed Gas Cert:	NA	Removed Gas Expiry:	NA
Removed CH4 Conc.	496.0 ppm	CH4 Equiv Conc.	1059.8 ppm
Removed C3H8 Conc.	205.0 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	3805
Zero Air Gen model:	Teledyne API T701H	Serial Number:	198

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1331259520
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.78E-04	2.78E-04	NMHC SP Ratio:	5.49E-05	5.49E-05
CH4 Retention time:	14.4	14.4	NMHC Peak Area:	164069	164069
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.8	16.91	16.86	1.003
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.86	Prev response	16.94	*% change	-0.4%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.8	16.91	16.80	1.007
Average Correction Factor					

Notes: Swapped out N2 carrier gas.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.8	9.00	8.98	1.002
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.98	Prev response	9.02	*% change	-0.5%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.8	9.00	8.96	1.004
Average Correction Factor					

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.8	7.92	7.88	1.005
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.88	Prev response	7.91	*% change	-0.4%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero					
High point					
Mid point					
Low point					
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.8	7.92	7.85	1.009
Average Correction Factor					

Calibration Statistics

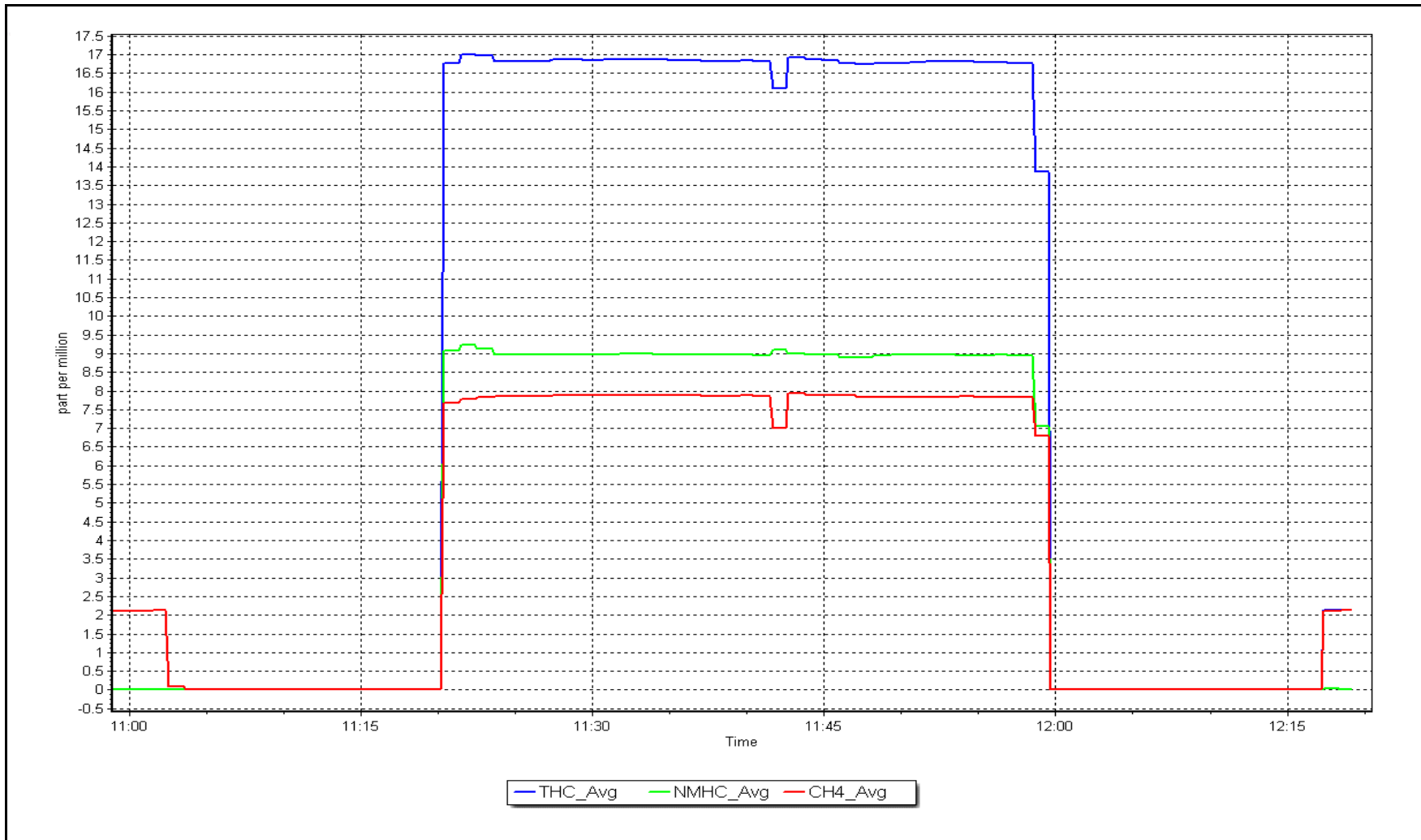
	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	1.001322	
THC Cal Offset:	-0.000349	
CH ₄ Cal Slope:	1.000052	
CH ₄ Cal Offset:	-0.002339	
NMHC Cal Slope:	1.002363	
NMHC Cal Offset:	0.001790	

Calibration Performed By: Kelly Baragar

NMHC Calibration Plot

Date: February 25, 2026

Location: Athabasca Valley





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Athabasca Valley
 Station number: AMS 07
 Calibration Date: February 19, 2026
 Last Cal Date: January 15, 2026
 Start time (MST): 11:37
 End time (MST): 17:08
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0033919
 NOX Cal Gas Conc: 60.10 ppm
 Removed Cylinder #: N/A
 Removed Gas NOX Conc: 60.10 ppm
 NOX gas Diff:
 Calibrator Model: API T750
 ZAG make/model: API T751H
 Cal Gas Expiry Date: January 9, 2032
 NO Cal Gas Conc: 59.90 ppm
 Removed Gas Exp Date: N/A
 Removed Gas NO Conc: 59.90 ppm
 NO gas Diff:
 Serial Number: 276
 Serial Number: 321

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.1	0.0	0.1	----	----
AF High point	4933	66.8	803.0	800.3	2.7	801.9	799.0	2.7	1.0015	1.0016
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 804.0 ppb		NO = 801.4 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -0.3%	
Baseline Corr 1st pt	NO _x = 801.8 ppb		NO = 799.0 ppb			<u>As Found Statistics</u>		*Percent Change	NO = -0.3%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1160120024

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.998407	1.000442
NO _x Cal Offset:	2.351901	-1.688023
NO Cal Slope:	0.998614	1.000741
NO Cal Offset:	2.171929	-1.948003
NO ₂ Cal Slope:	1.001934	1.005071
NO ₂ Cal Offset:	0.902579	1.412028

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.910	0.911	NO bkgnd or offset:	6.4	6.4
NOX coeff or slope:	1.003	1.005	NOX bkgnd or offset:	6.6	6.6
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	187.8	185.4

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.3	0.2	0.2	----	----
High point	4933	66.8	803.0	800.3	2.7	802.3	799.6	2.7	1.0008	1.0009
Mid point	4966	33.4	401.5	400.2	1.3	400.0	398.7	1.3	1.0038	1.0037
Low point	4983	16.7	200.7	200.1	0.7	196.5	195.3	1.2	1.0216	1.0245
As left zero	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	----	----
As left span	4933	66.8	803.0	404.5	398.5	808.6	404.5	404.1	0.9930	1.0000
Average Correction Factor									1.0087	1.0097

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.2	----	----
High GPT point	798.8	414.0	387.5	390.2	0.9930	100.7%
Mid GPT point	798.8	608.6	192.9	196.0	0.9840	101.6%
Low GPT point	798.8	704.3	97.2	100.2	0.9698	103.1%
Average Correction Factor					0.9823	101.8%

Notes:

Calibration completed using the portable calibration system. Span adjusted.

Calibration Performed By:

Aswin Sasi Kumar



Wood Buffalo Environmental Association

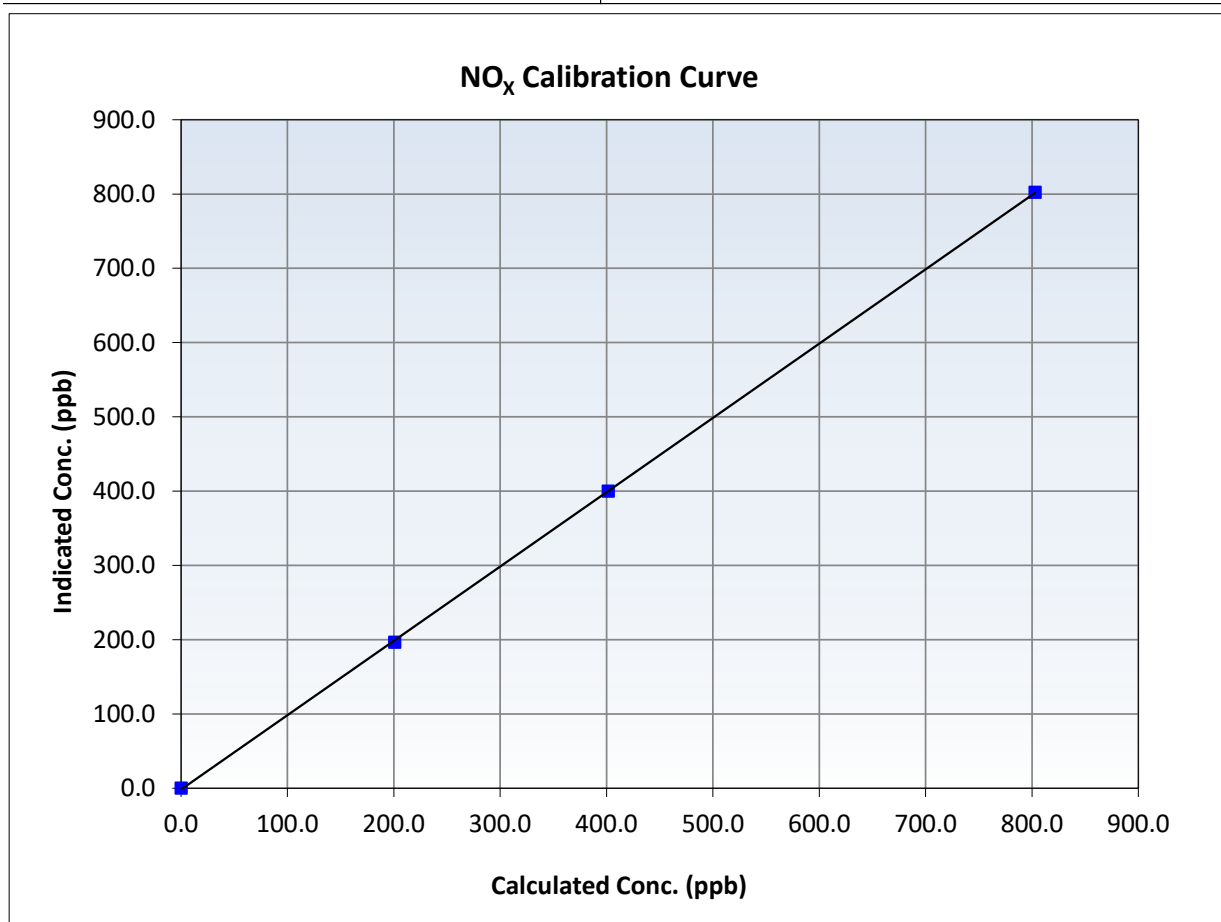
NO_x Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 15, 2026
Station Name:	Athabasca Valley	Station Number:	AMS 07
Start Time (MST):	11:37	End Time (MST):	17:08
Analyzer make:	Thermo 42i	Analyzer serial #:	1160120024

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.3	----	Correlation Coefficient	0.999968	<i>≥0.995</i>
803.0	802.3	1.0008	Slope	1.000442	<i>0.90 - 1.10</i>
401.5	400.0	1.0038	Intercept	-1.688023	<i>+/-20</i>
200.7	196.5	1.0216			





Wood Buffalo Environmental Association

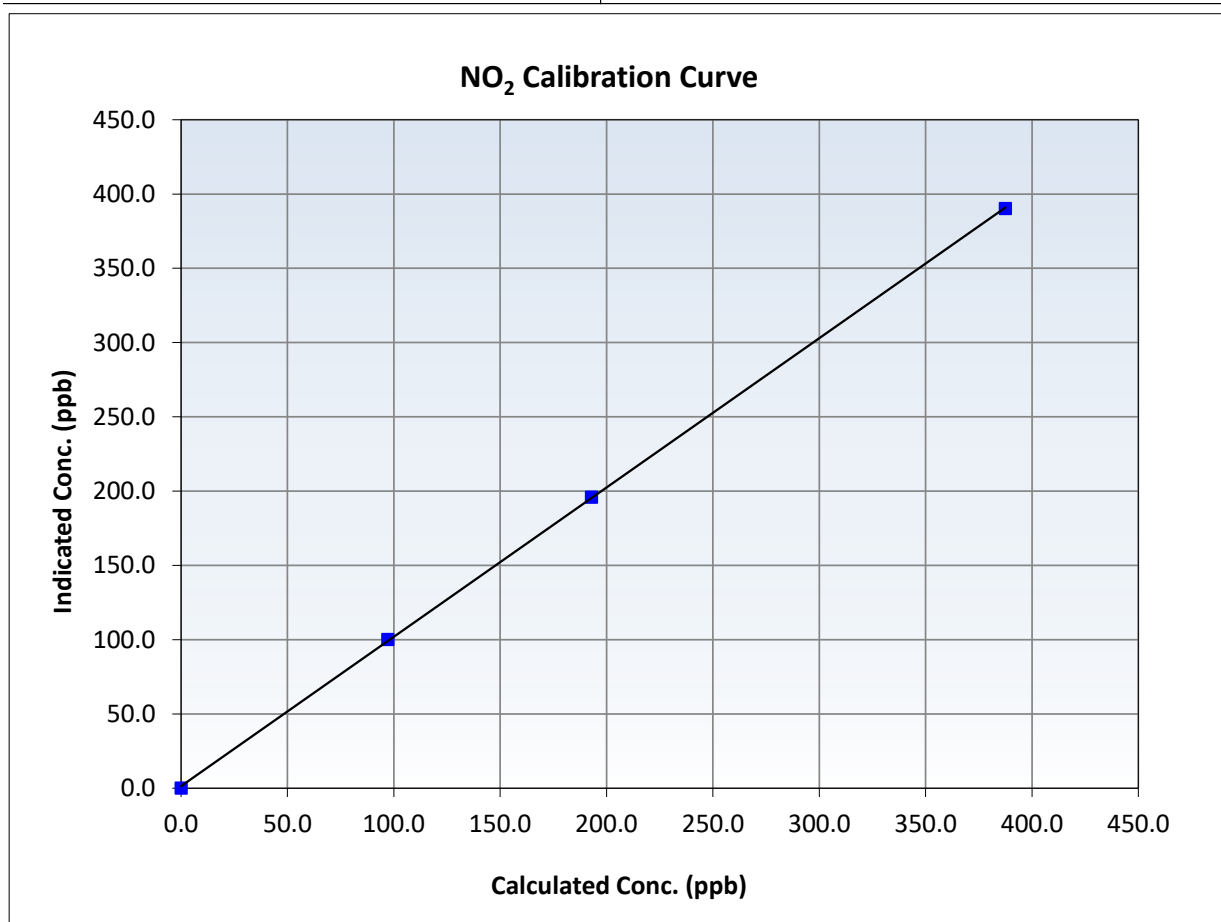
NO₂ Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 15, 2026
Station Name:	Athabasca Valley	Station Number:	AMS 07
Start Time (MST):	11:37	End Time (MST):	17:08
Analyzer make:	Thermo 42i	Analyzer serial #:	1160120024

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999955	<i>≥0.995</i>
387.5	390.2	0.9930	Slope	1.005071	<i>0.90 - 1.10</i>
192.9	196.0	0.9840	Intercept	1.412028	<i>+/-20</i>
97.2	100.2	0.9698			





Wood Buffalo Environmental Association

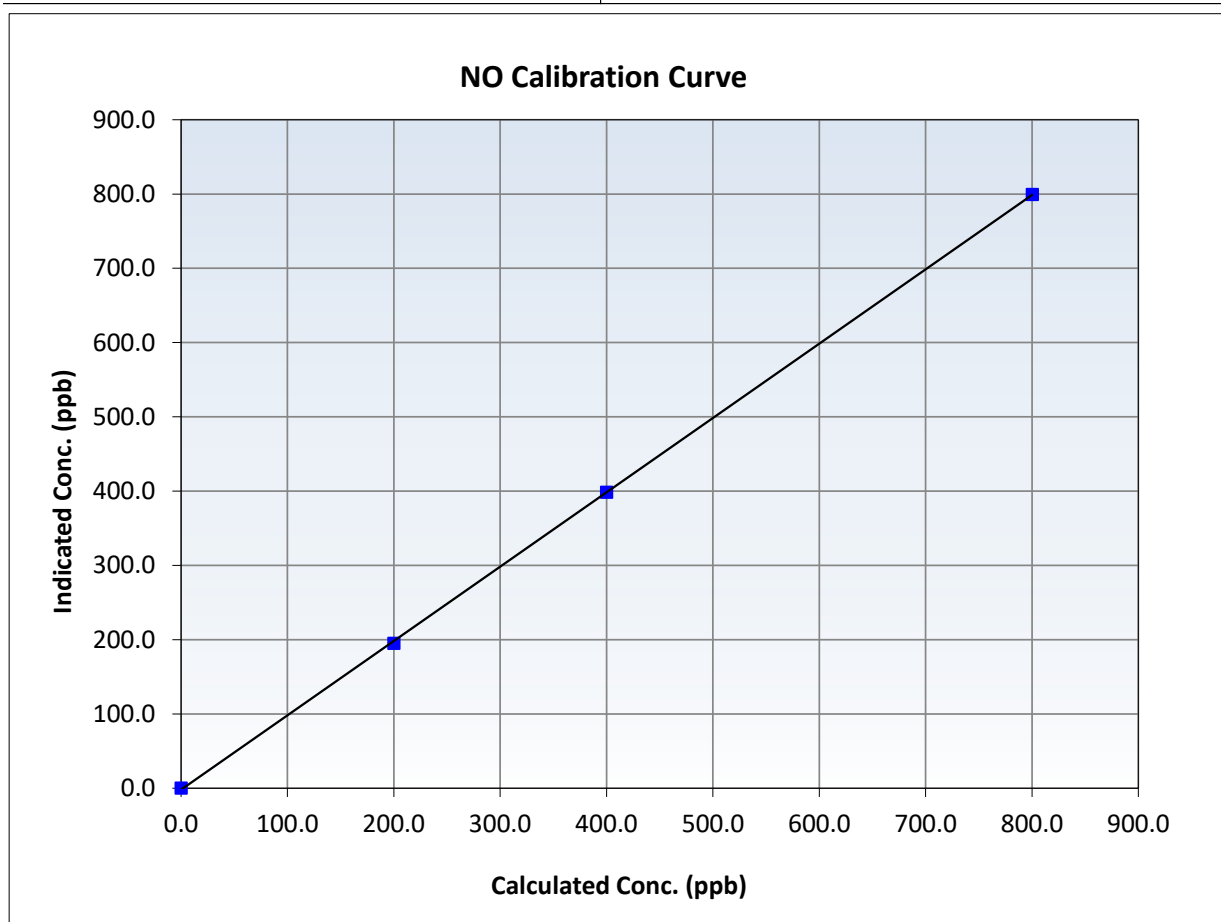
NO Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 15, 2026
Station Name:	Athabasca Valley	Station Number:	AMS 07
Start Time (MST):	11:37	End Time (MST):	17:08
Analyzer make:	Thermo 42i	Analyzer serial #:	1160120024

Calibration Data

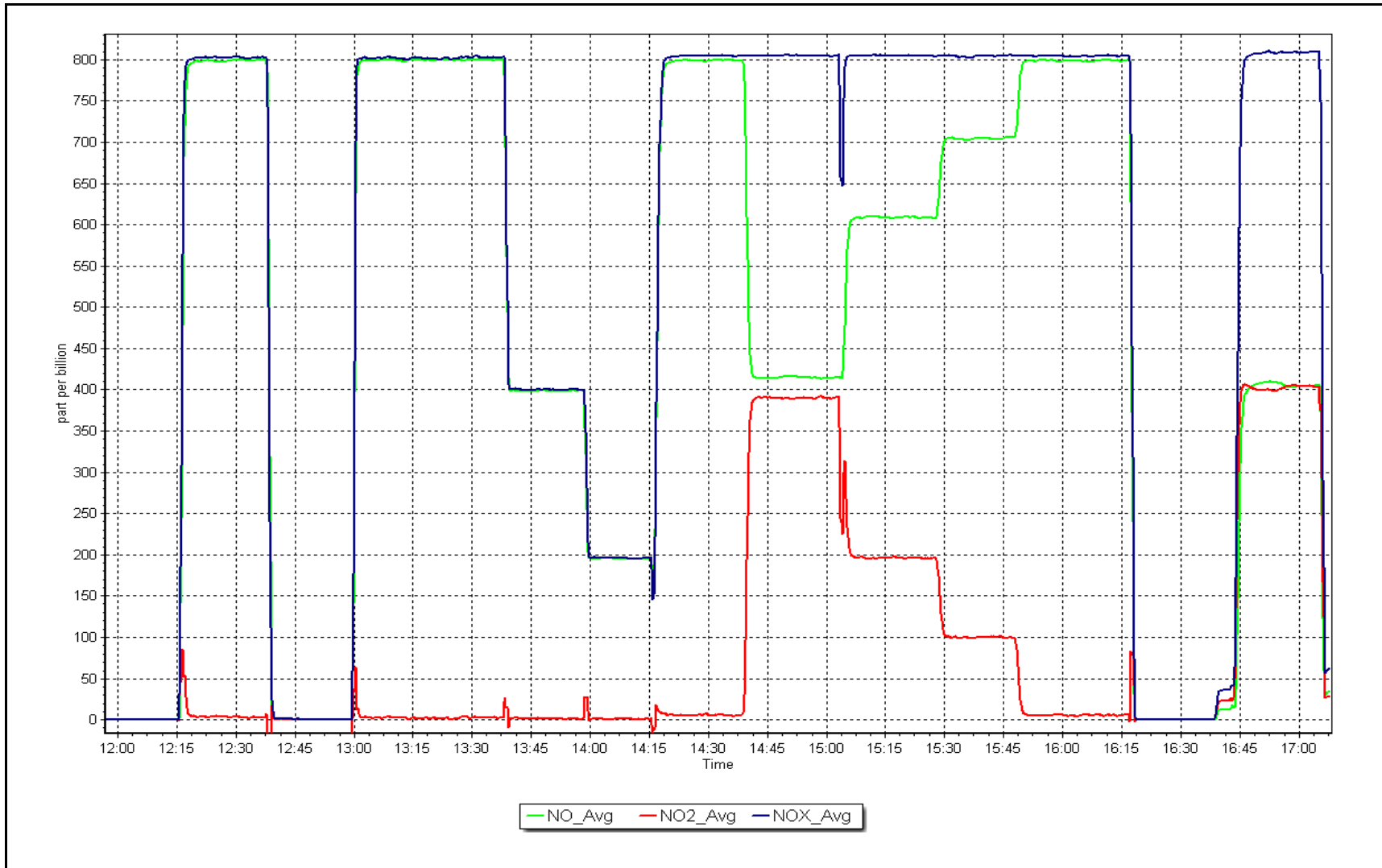
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999960	<i>≥0.995</i>
800.3	799.6	1.0009	Slope	1.000741	<i>0.90 - 1.10</i>
400.2	398.7	1.0037	Intercept	-1.948003	<i>+/-20</i>
200.1	195.3	1.0245			



NO_x Calibration Plot

Date: February 19, 2026

Location: Athabasca Valley





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Athabasca Valley	Station number:	AMS07
Calibration Date:	February 27, 2026	Last Cal Date:	January 7, 2026
Start time (MST):	11:11	End time (MST):	14:24
Reason:	Routine		

Calibration Standards

O3 generation mode:	Photometer	Serial Number:	3805
Calibrator Make/Model:	T700	Serial Number:	198
ZAG Make/Model:	T701H		

Analyzer Information

Analyzer make:	Thermo 49i	Analyzer serial #:	1507964700
Analyzer Range	0 - 500 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.999943	1.004714	Backgd or Offset:	-0.2	-0.2
Calibration intercept:	0.560000	-0.300000	Coeff or Slope:	1.002	1.002

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	NA	0.0	-0.3	----
As found High point	5000	1705.1	400.0	397.6	1.005
As found Mid point					
As found Low point					
Baseline Corr As found:	397.9	Previous response	400.5	*% change	-0.7%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	NA	0.0	-0.1	----
High point	5000	1705.1	400.0	401.7	0.996
Mid point	5000	1172.8	200.0	200.5	0.998
Low point	5000	921.2	100.0	100.0	1.000
As left zero	5000	NA	0.0	-0.1	----
As left span	5000	1582.6	400.0	405.0	0.988
Average Correction Factor					0.998

Notes: Inlet filter changed after as founds, Span adjusted

Calibration Performed By: Aswin Sasi Kumar, Jason Brooks



Wood Buffalo Environmental Association

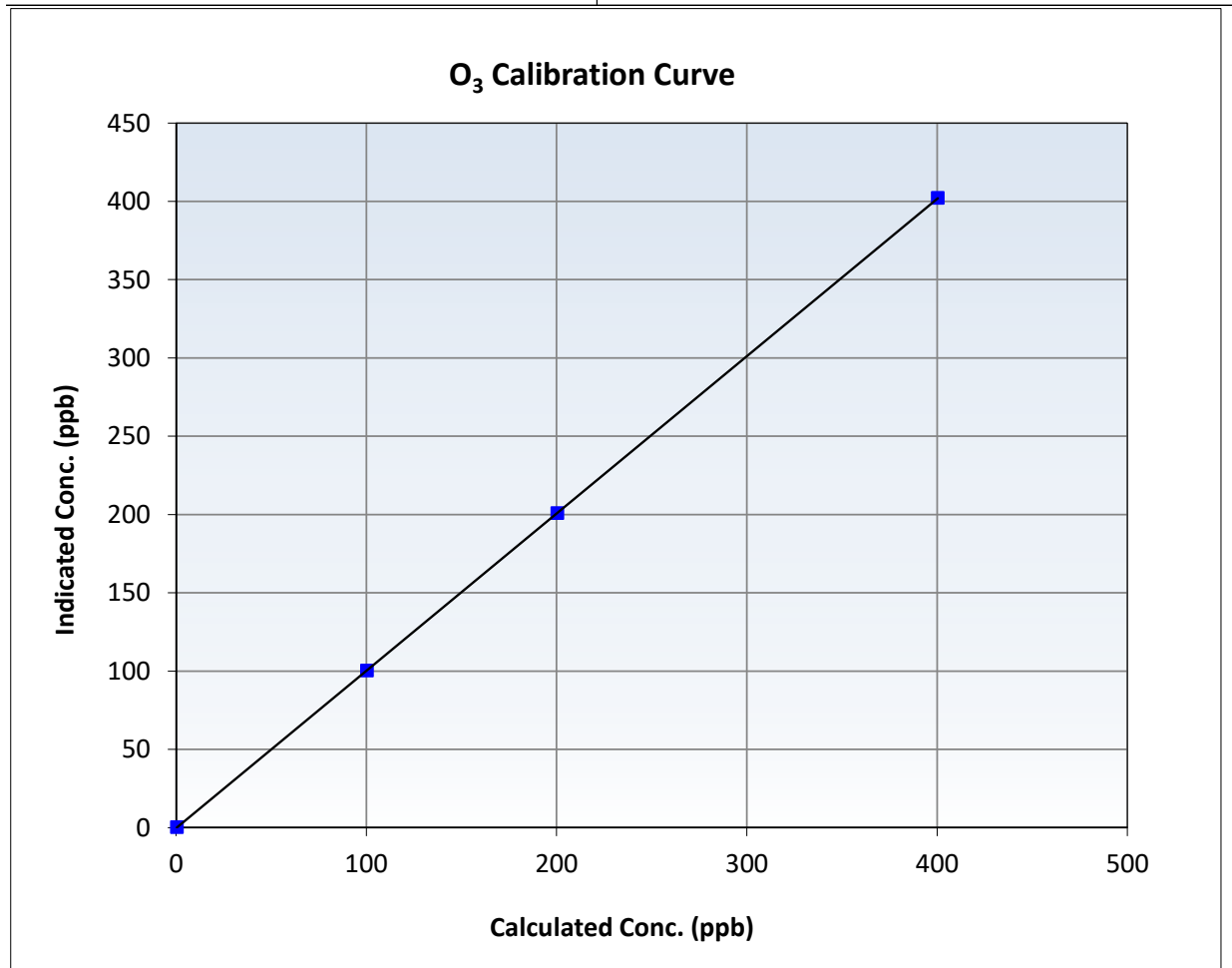
O₃ Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	January 7, 2026
Station Name:	Athabasca Valley	Station Number:	AMS07
Start Time (MST):	11:11	End Time (MST):	14:24
Analyzer make:	Thermo 49i	Analyzer serial #:	1507964700

Calibration Data

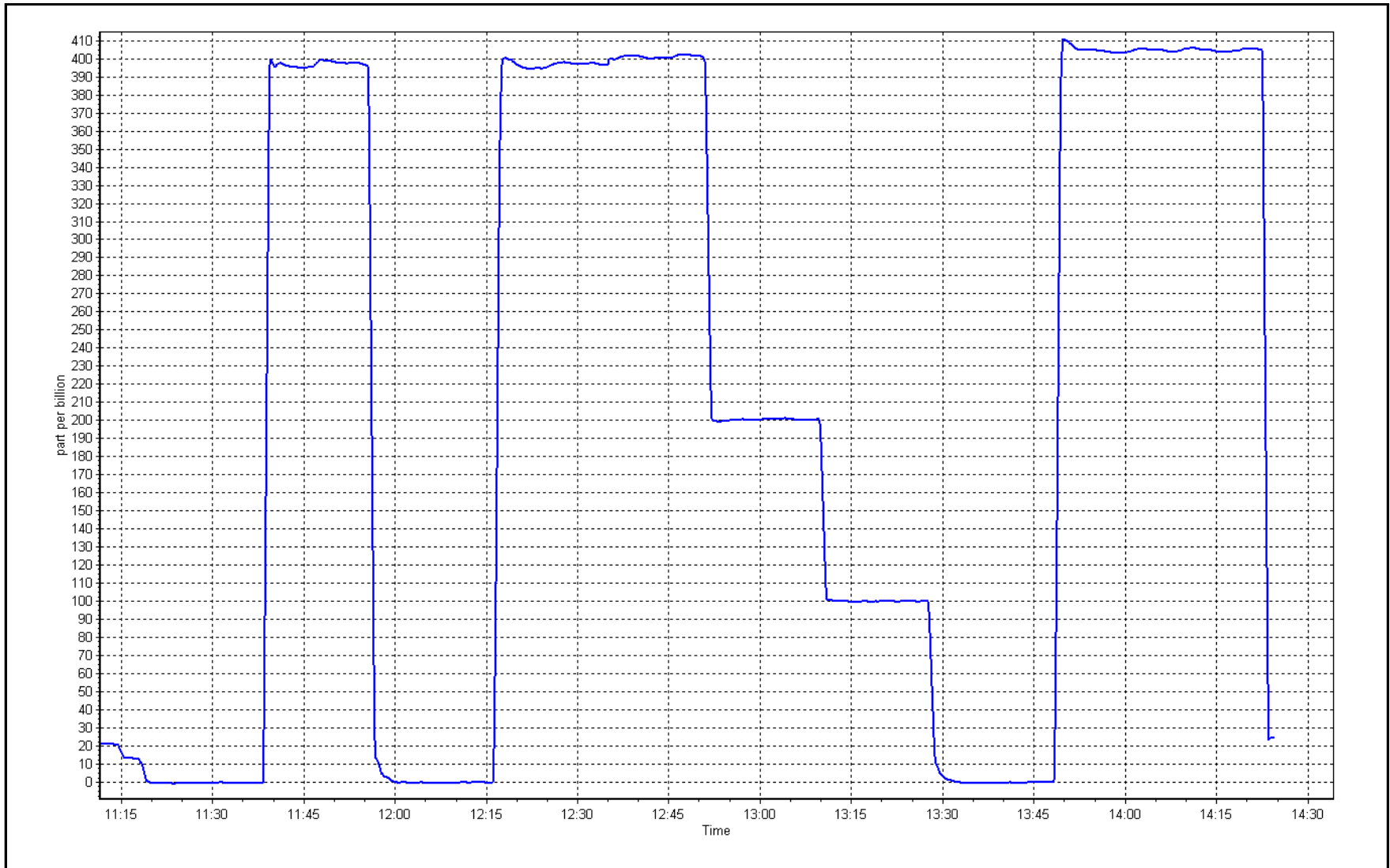
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.1	----	Correlation Coefficient	0.999999	≥0.995
400.0	401.7	0.9958	Slope	1.004714	0.90 - 1.10
200.0	200.5	0.9975	Intercept	-0.300000	+/- 5
100.0	100.0	1.0000			



O₃ Calibration Plot

Date: February 27, 2026

Location: Athabasca Valley





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Athabasca Valley Station number: AMS 07
Calibration Date: February 27, 2026 Last Cal Date: January 22, 2026
Start time (MST): 13:02 End time (MST): 13:40
Analyzer Make: API T640 S/N: 2235
Particulate Fraction: PM2.5
Flow Meter Make/Model: Alicat FP-25BT S/N: 388746
Temp/RH standard: Alicat FP-25BT S/N: 388746

Monthly Calibration Test

<u>Parameter</u>	<u>As found</u>	<u>Measured</u>	<u>As left</u>	<u>Adjusted</u>	<u>(Limits)</u>
T (°C)	-22.10	-25.02	-22.10	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	749.10	748.1	749.10	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	5.04	4.97	5.04	<input type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	38	----	38	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	2.80	PM w/ HEPA: _____	0.00	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: 10.9 Expiry Date: July 16, 2026
Lot No.: 100128-050-050

<u>Parameter</u>	<u>As found</u>	<u>Post maintenance</u>	<u>As left</u>	<u>Adjusted</u>	<u>(Limits)</u>
PMT Peak Test	N/A	11.20	11.20	<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: January 22, 2026
Date Disposable Filter Changed: February 27, 2026

Post- maintenance Zero Verification: PM w/ HEPA: 0.20 <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: October 9, 2025
Date RH/T Sensor Cleaned: October 9, 2025

Notes: Temp, pressure and flow checked. Leak check passed. Disposable filter changed.

Calibration by: Aswin Sasi Kumar, Jason Brooks



Wood Buffalo Environmental Association

CO Calibration Report

Station Information

Station Name:	Athabasca Valley	Station number:	AMS 07
Calibration Date:	February 6, 2026	Last Cal Date:	January 14, 2026
Start time (MST):	11:08	End time (MST):	14:37
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	2,953	ppm	Cal Gas Exp Date: September 30, 2029
Cal Gas Cylinder #:	T1TWKRN		
Removed Cal Gas Conc:	2,953	ppm	Rem Gas Exp Date: NA
Removed Gas Cyl #:	NA		Diff between cyl:
Calibrator Make/Model:	Teledyne API T700		Serial Number: 3805
ZAG Make/Model:	Teledyne API 701H		Serial Number: 198

Analyzer Information

Analyzer make:	Thermo 48i-TLE	Analyzer serial #:	1408761381
Analyzer Range:	0 - 50 ppm		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.996212	0.997610	Backgd or Offset:	6.012	6.006
Calibration intercept:	0.171996	0.200018	Coeff or Slope:	1.077	1.079

CO As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4932	67.8	40.0	39.9	1.004
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	39.90	Prev response:	40.06	*% change:	-0.4%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* => +/-5% change initiates investigation	

CO Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4932	67.8	40.0	40.0	1.000
Mid point	4966	33.9	20.0	20.4	0.984
Low point	4983	16.9	10.0	10.3	0.971
As left zero	5000	0.0	0.0	0.0	----
As left span	4932	67.8	40.0	40.0	1.001
Average Correction Factor					0.985

Notes: Span adjusted.

Calibration Performed By: Aswin Sasi Kumar



Wood Buffalo Environmental Association

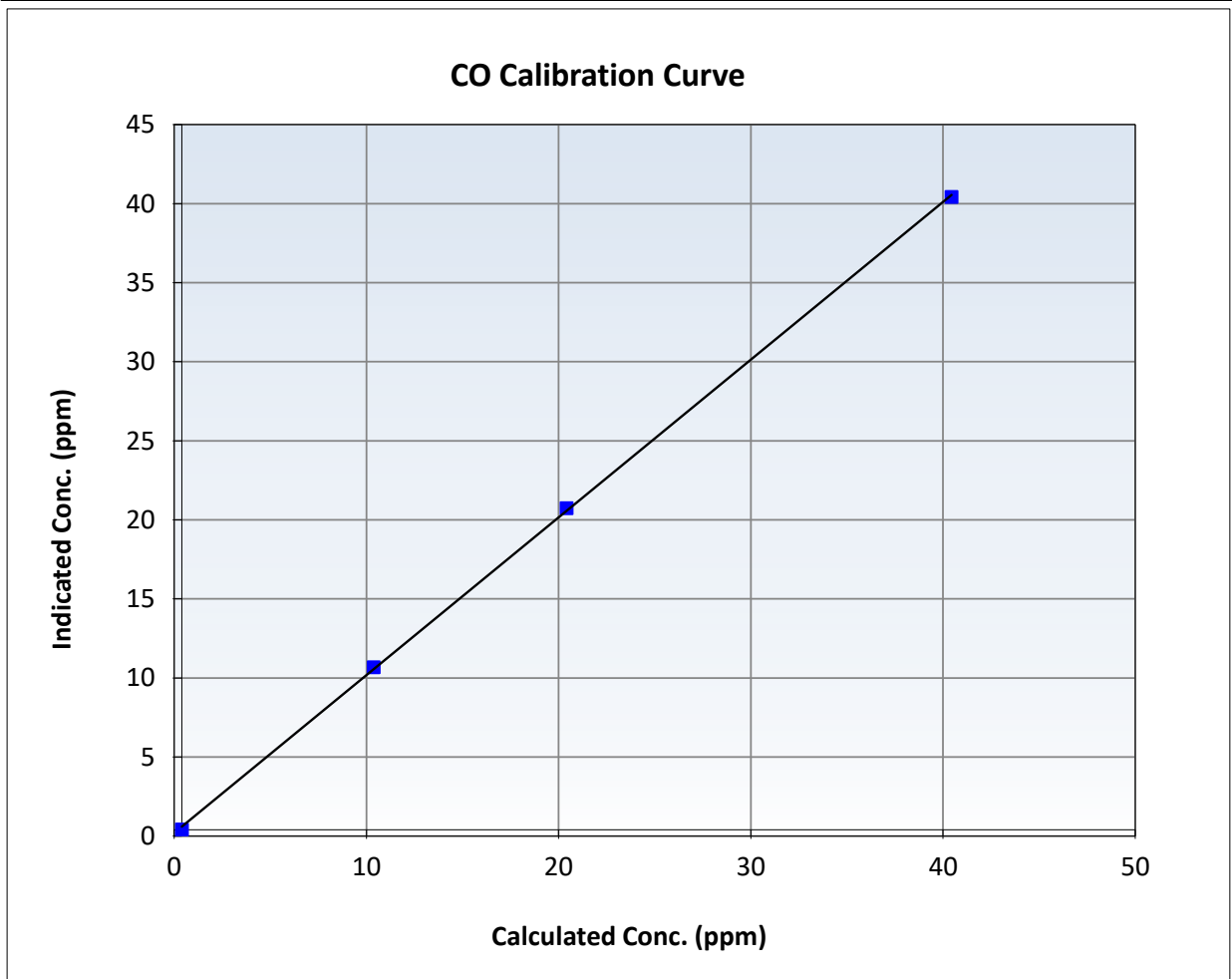
CO Calibration Summary

Station Information

Calibration Date:	February 6, 2026	Previous Calibration:	January 14, 2026
Station Name:	Athabasca Valley	Station Number:	AMS 07
Start Time (MST):	11:08	End Time (MST):	14:37
Analyzer make:	Thermo 48i-TLE	Analyzer serial #:	1408761381

Calibration Data

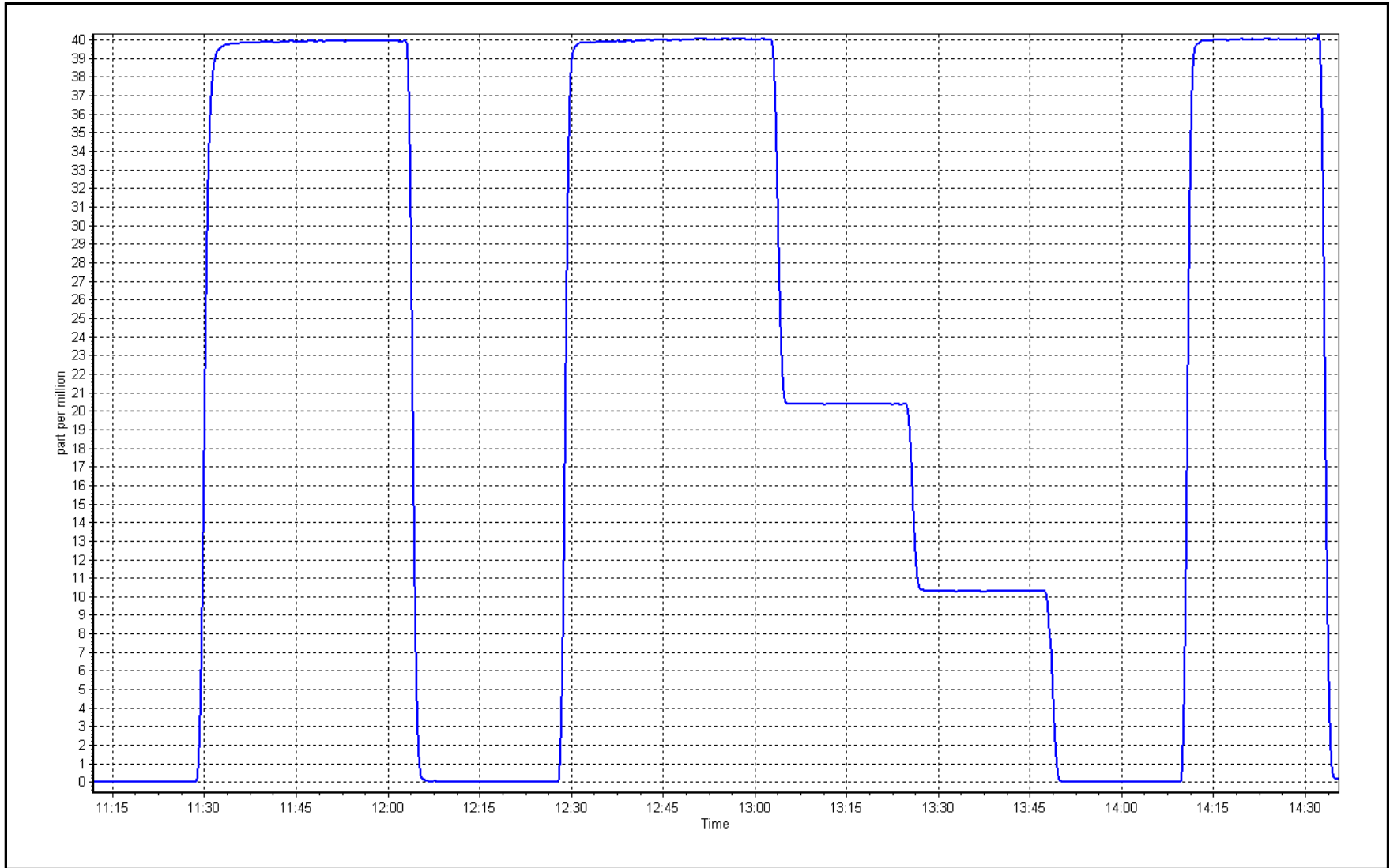
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999894	≥0.995
40.0	40.0	1.0004	Slope	0.997610	0.90 - 1.10
20.0	20.4	0.9839	Intercept	0.200018	+/-1.5
10.0	10.3	0.9709			



CO Calibration Plot

Date: February 6, 2026

Location: Athabasca Valley





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS08 FORT CHIPEWYAN FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Fort Chipewyan	Station number:	AMS 08
Calibration Date:	February 13, 2026	Last Cal Date:	January 29, 2026
Start time (MST):	8:06	End time (MST):	10:58
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	49.84	ppm	Cal Gas Exp Date:	January 6, 2030
Cal Gas Cylinder #:	CC196697			
Removed Cal Gas Conc:	49.84	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Model:	Teledyne API T700		Serial Number:	3810
Zero Air Gen Model:	Teledyne API T701		Serial Number:	135

Analyzer Information

Analyzer make:	Thermo 43i-TLE	Serial Number:	1170050147
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.997821	1.001818	Backgd or Offset:	3.94	4.02
Calibration intercept:	1.155383	0.454770	Coeff or Slope:	1.039	1.058

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.9	----
As found High point	4920	80.3	800.4	784.3	1.019
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	785.2	Previous response	799.8	*% change	-1.9%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.5	----
High point	4920	80.3	800.4	801.6	0.998
Mid point	4960	40.2	400.7	403.0	0.994
Low point	4980	20.1	200.4	201.7	0.993
As left zero	5000	0.0	0.0	-0.6	----
As left span	4920	80.3	800.4	800.9	0.999
Average Correction Factor:					0.995

Notes: Changed inlet filter after as founds. Made adjustment to high point span. Upon finishing they a alarm sgin showing on screen.

Calibration Performed By: Matthew courtoreille



Wood Buffalo Environmental Association

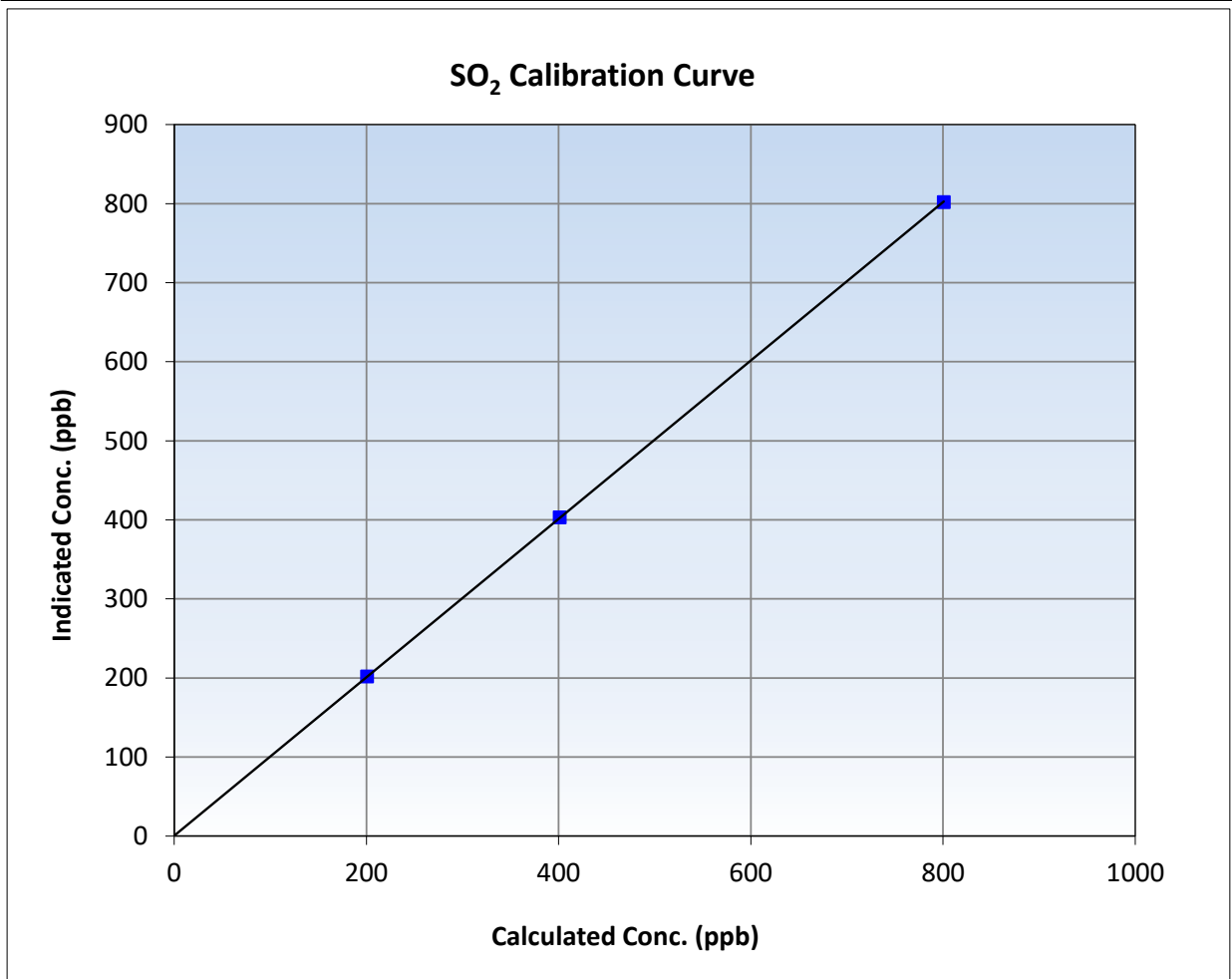
SO₂ Calibration Summary

Station Information

Calibration Date:	February 13, 2026	Previous Calibration:	January 29, 2026
Station Name:	Fort Chipewyan	Station Number:	AMS 08
Start Time (MST):	8:06	End Time (MST):	10:58
Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1170050147

Calibration Data

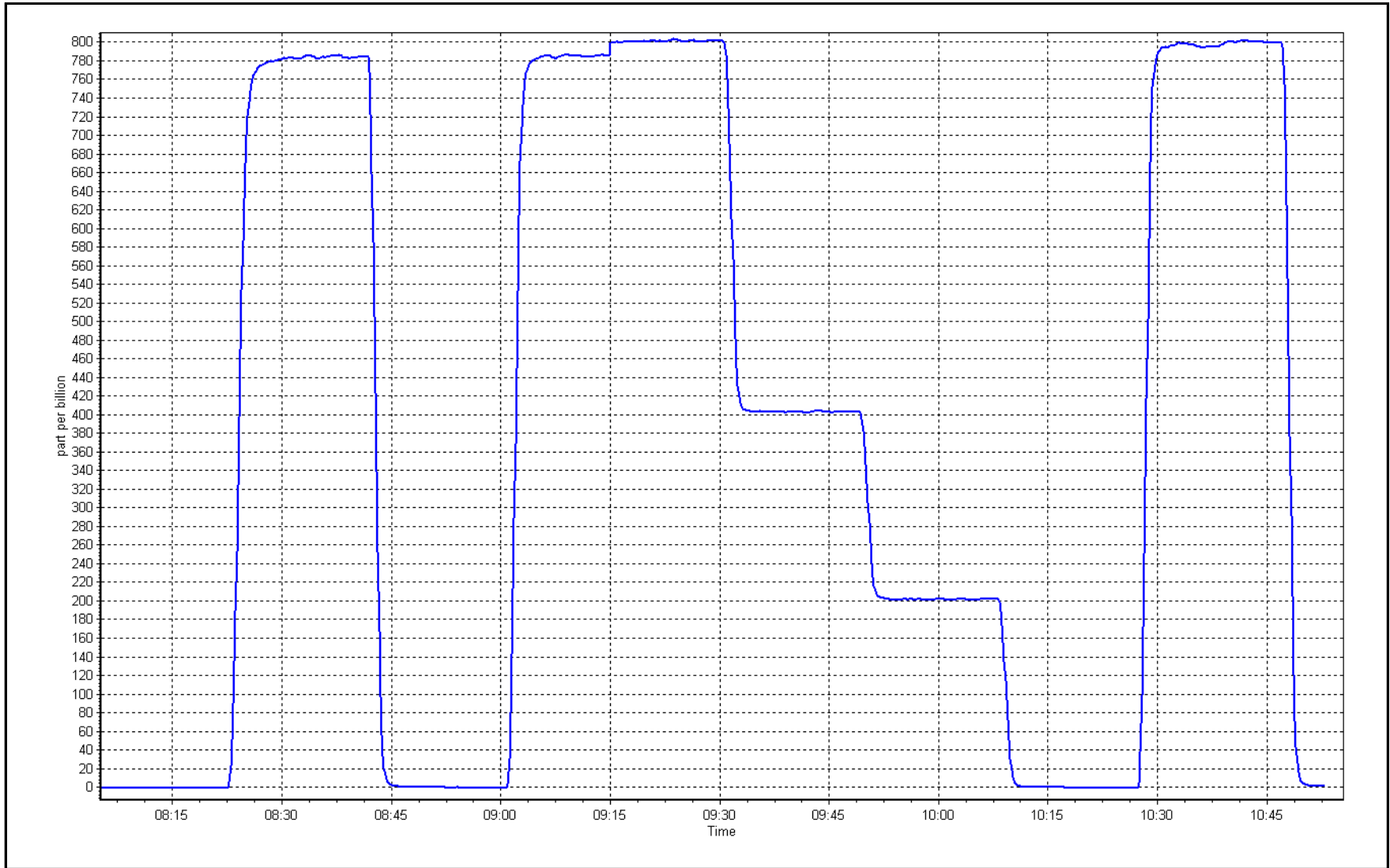
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	-0.5	----	Correlation Coefficient	0.999992	≥0.995
800.4	801.6	0.9985	Slope	1.001818	0.90 - 1.10
400.7	403.0	0.9943	Intercept	0.454770	+/-30
200.4	201.7	0.9933			



SO2 Calibration Plot

Date: February 13, 2026

Location: Fort Chipewyan





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name:	Fort Chipewyan	Station number:	AMS 08
Calibration Date:	February 12, 2026	Last Cal Date:	January 28, 2026
Start time (MST):	11:38	End time (MST):	15:30
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.84	ppm	Cal Gas Exp Date:	August 28, 2027
Cal Gas Cylinder #:	SA7549			
Removed Cal Gas Conc:	4.84	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700		Serial Number:	3810
ZAG Make/Model:	Teledyne API T701		Serial Number:	135

Analyzer Information

Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1218153461
Converter make:	CDN-101	Converter serial #:	630
Analyzer Range	0 - 100 ppb	Converter Temp:	800 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.007959	0.989663	Backgd or Offset:	3.0	3.0
Calibration intercept:	-0.298033	-0.157758	Coeff or Slope:	1.157	1.157

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.1	----
As found High point	4917	82.6	80.0	80.2	0.996
As found Mid point	4959	41.3	40.0	40.2	0.992
As found Low point	4979	20.7	20.0	19.8	1.007
New cylinder response					
Baseline Corr As found:	80.3	Prev response:	80.30	*% change:	0.0%
Baseline Corr 2nd AF pt:	40.3	AF Slope:	1.005389	AF Intercept:	-0.158079
Baseline Corr 3rd AF pt:	19.9	AF Correlation:	0.999981	<i>* = +/-5% change initiates investigation</i>	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4917	82.6	80.0	79.0	1.012
Mid point	4959	41.3	40.0	39.5	1.012
Low point	4979	20.7	20.0	19.4	1.033
As left zero	5000	0.0	0.0	0.1	----
As left span				79.1	
SO2 Scrubber Check	4920	80.3	803.0	0.0	----
Date of last scrubber change:		May 15, 2025		Ave Corr Factor	1.019
Date of last converter efficiency test:					

Notes: changed inlet filter after as found. No adjustments made.

Calibration Performed By: Matthew courtoreille



Wood Buffalo Environmental Association

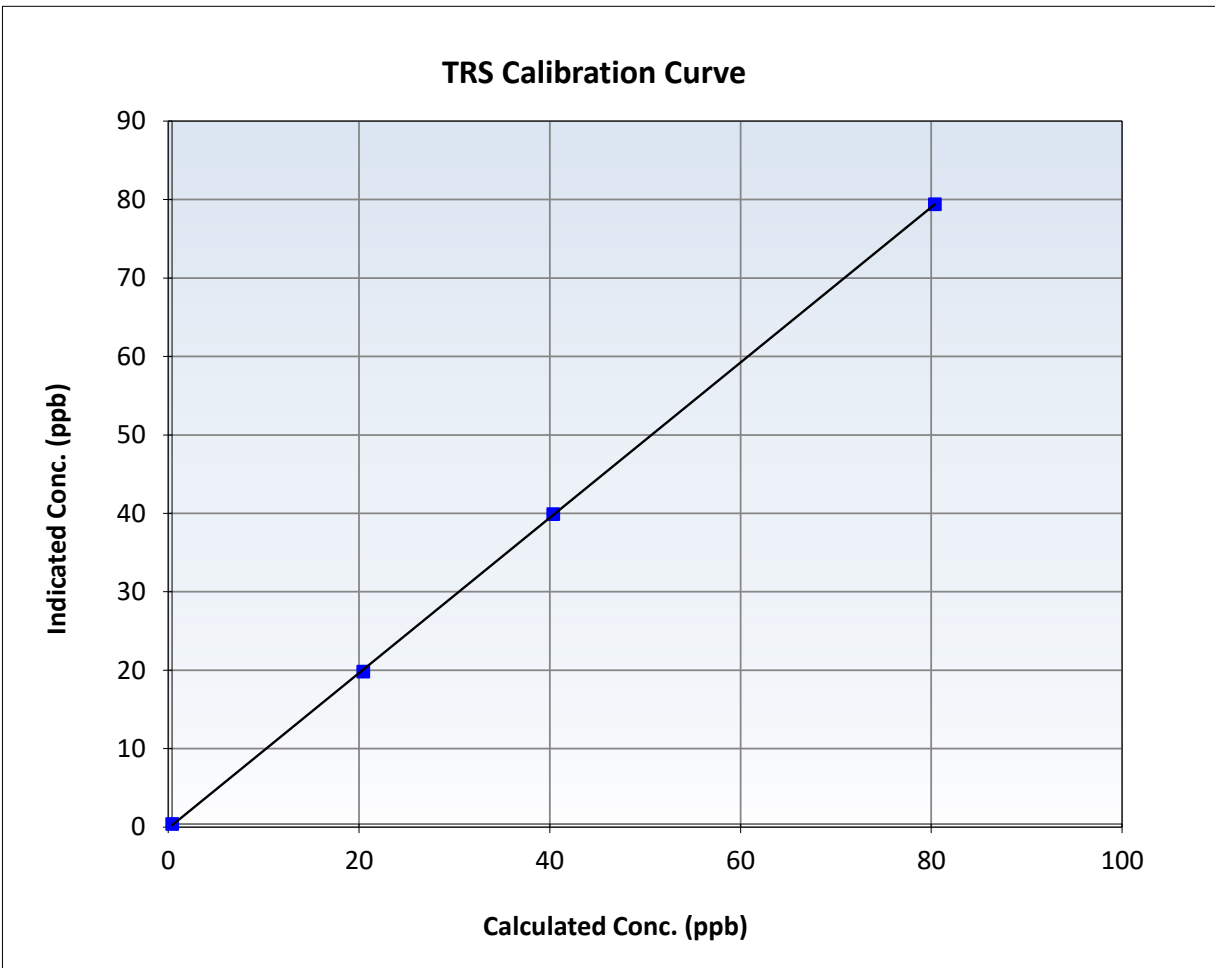
TRS Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 28, 2026
Station Name:	Fort Chipewyan	Station Number:	AMS 08
Start Time (MST):	11:38	End Time (MST):	15:30
Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1218153461

Calibration Data

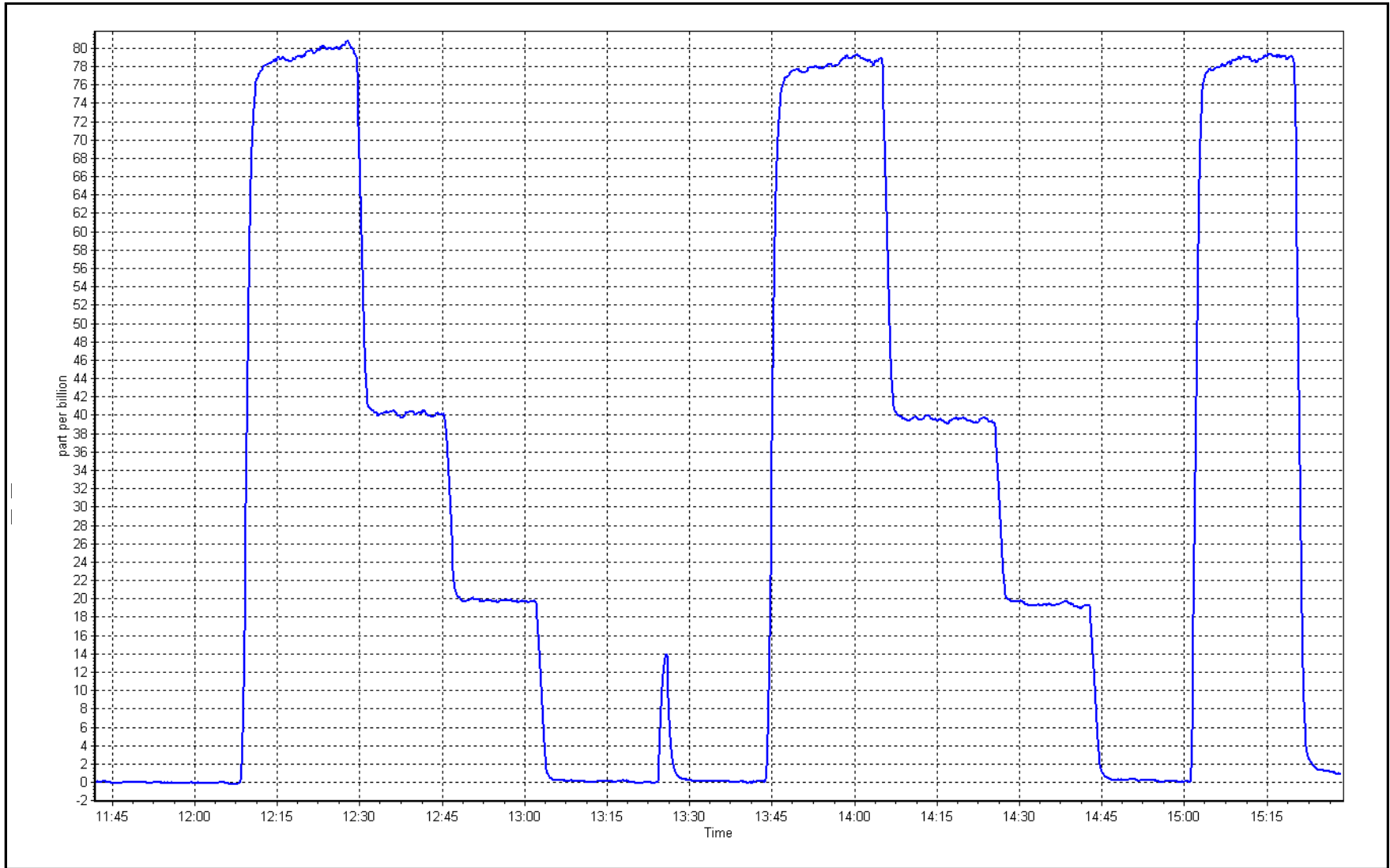
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999968	≥ 0.995
80.0	79.0	1.0122	Slope	0.989663	$0.90 - 1.10$
40.0	39.5	1.0121	Intercept	-0.157758	± 3
20.0	19.4	1.0329			



TRS Calibration Plot

Date: February 12, 2026

Location: Fort Chipewyan





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Fort Chipewyan
 Station number: AMS 08
 Calibration Date: February 13, 2026
 Last Cal Date: January 20, 2026
 Start time (MST): 12:41
 End time (MST): 17:03
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: CC358100
 NOX Cal Gas Conc: 60.10 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 60.10 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701H
 Cal Gas Expiry Date: January 5, 2032
 NO Cal Gas Conc: 60.00 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 60.00 ppm
 NO gas Diff:
 Serial Number: 3810
 Serial Number: 197

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.3	0.6	-0.3	----	----
AF High point	4933	66.7	801.8	800.4	1.3	820.2	816.3	3.8	0.9779	0.9813
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 801.3 ppb	NO = 799.9 ppb				<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = 2.3%	
Baseline Corr 1st pt	NO _x = 819.9 ppb	NO = 815.7 ppb				<u>As Found Statistics</u>		*Percent Change	NO = 1.9%	
Baseline Corr 2nd pt	NO _x = NA ppb	NO = NA ppb				As found NO _x r ² :		Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb	NO = NA ppb				As found NO r ² :		NO SI:	NO Int:	
						As found NO ₂ r ² :		NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1426262592

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.998291	1.000845
NO _x Cal Offset:	0.934879	1.014244
NO Cal Slope:	0.999098	1.001199
NO Cal Offset:	0.134608	-0.025878
NO ₂ Cal Slope:	1.000660	1.004950
NO ₂ Cal Offset:	0.457906	-0.179382

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.087	1.066	NO bkgnd or offset:	4.9	4.8
NOX coeff or slope:	0.997	0.997	NOX bkgnd or offset:	5.3	5.2
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	178.5	175.5

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.5	0.8	-0.3	----	----
High point	4933	66.7	801.8	800.4	1.3	803.3	801.9	1.4	0.9981	0.9982
Mid point	4967	33.3	400.2	399.6	0.7	401.6	399.3	2.3	0.9966	1.0007
Low point	4983	16.7	200.7	200.4	0.3	202.6	200.0	2.6	0.9908	1.0020
As left zero	5000	0.0	0.0	0.0	0.0	0.5	0.8	-0.3	----	----
As left span	4933	66.7	801.8	394.6	407.2	799.1	394.6	404.3	1.0034	1.0000
Average Correction Factor									0.9952	1.0003

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	-0.3	----	----
High GPT point	795.4	392.7	404.0	405.4	0.9966	100.3%
Mid GPT point	795.4	593.4	203.3	205.4	0.9899	101.0%
Low GPT point	795.4	693.9	102.8	102.5	1.0033	99.7%
Average Correction Factor					0.9966	100.3%

Notes: Changed inlet filter after as founds. Made adjustment to span for a more liner equation.

Calibration Performed By: Matthew Courtoreille



Wood Buffalo Environmental Association

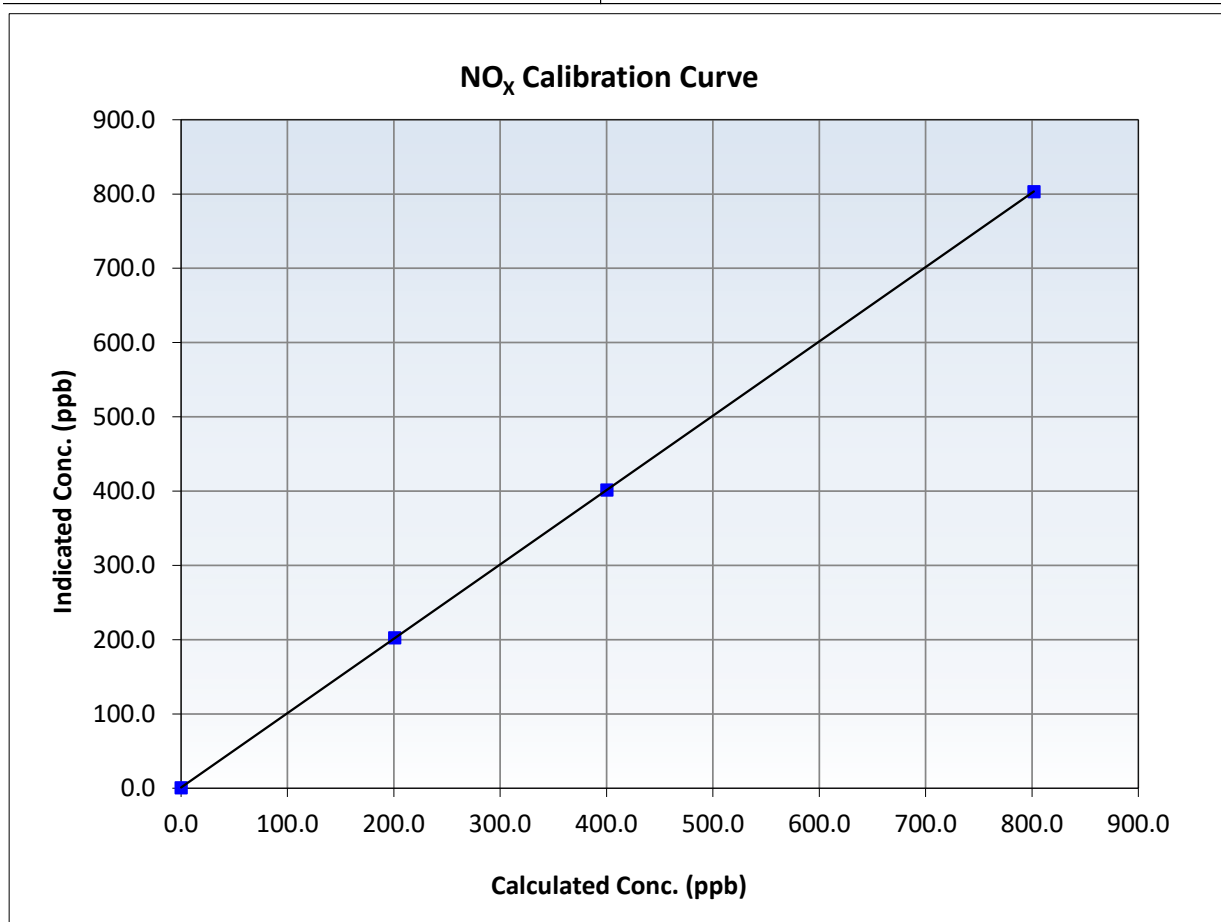
NO_x Calibration Summary

Station Information

Calibration Date:	February 13, 2026	Previous Calibration:	January 20, 2026
Station Name:	Fort Chipewyan	Station Number:	AMS 08
Start Time (MST):	12:41	End Time (MST):	17:03
Analyzer make:	Thermo 42i	Analyzer serial #:	1426262592

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.5	----	Correlation Coefficient	0.999998	<i>≥0.995</i>
801.8	803.3	0.9981	Slope	1.000845	<i>0.90 - 1.10</i>
400.2	401.6	0.9966	Intercept	1.014244	<i>+/-20</i>
200.7	202.6	0.9908			





Wood Buffalo Environmental Association

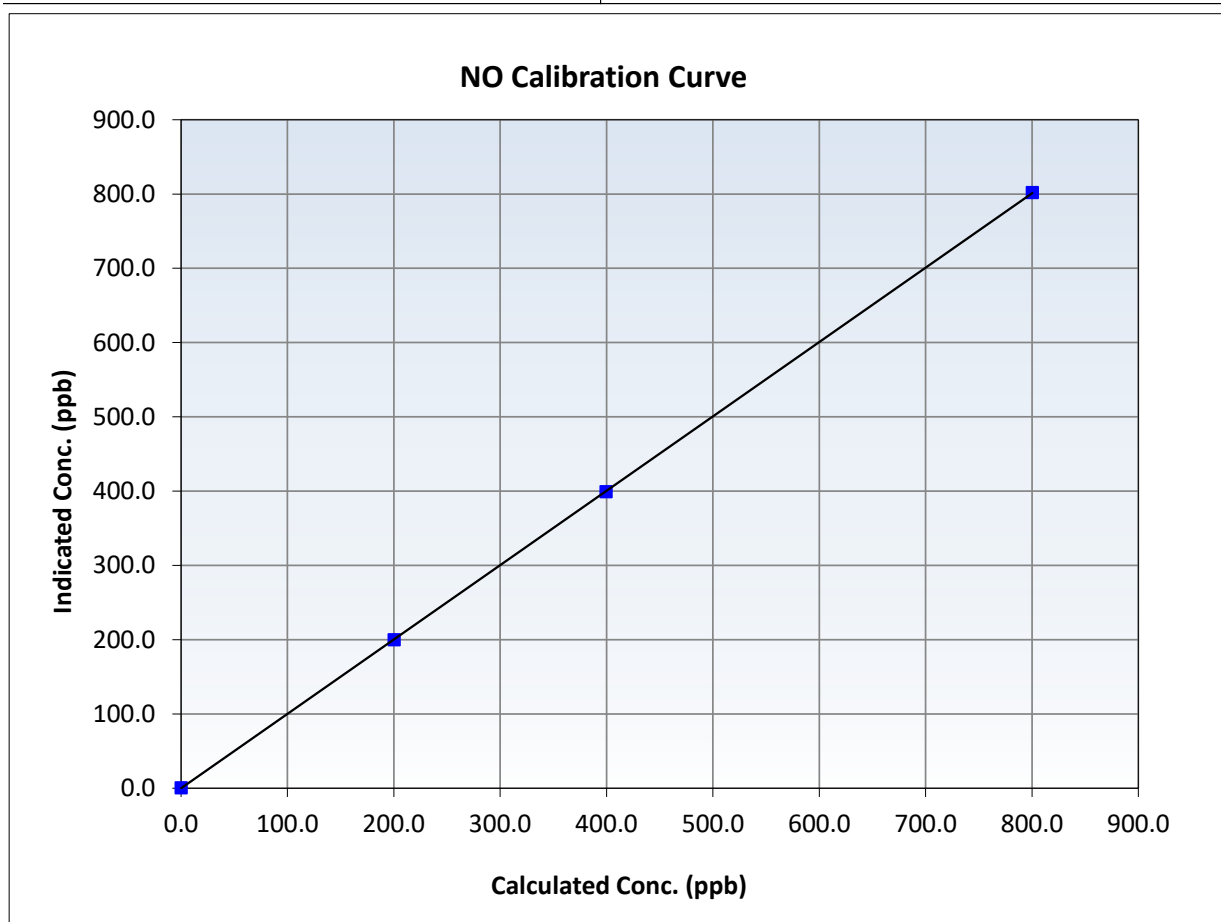
NO Calibration Summary

Station Information

Calibration Date:	February 13, 2026	Previous Calibration:	January 20, 2026
Station Name:	Fort Chipewyan	Station Number:	AMS 08
Start Time (MST):	12:41	End Time (MST):	17:03
Analyzer make:	Thermo 42i	Analyzer serial #:	1426262592

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.8	----	Correlation Coefficient	0.999995	<i>≥0.995</i>
800.4	801.9	0.9982	Slope	1.001199	<i>0.90 - 1.10</i>
399.6	399.3	1.0007	Intercept	-0.025878	<i>+/-20</i>
200.4	200.0	1.0020			





Wood Buffalo Environmental Association

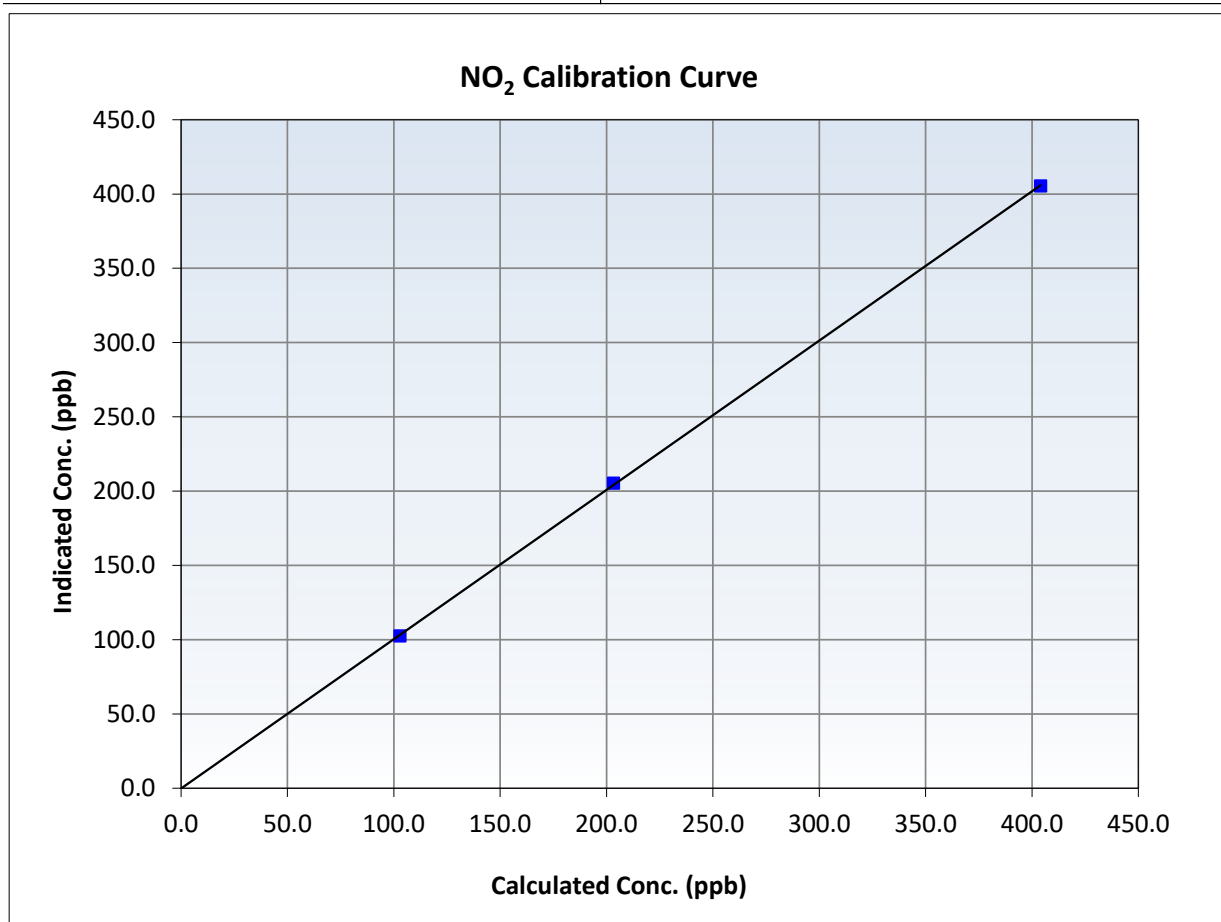
NO₂ Calibration Summary

Station Information

Calibration Date:	February 13, 2026	Previous Calibration:	January 20, 2026
Station Name:	Fort Chipewyan	Station Number:	AMS 08
Start Time (MST):	12:41	End Time (MST):	17:03
Analyzer make:	Thermo 42i	Analyzer serial #:	1426262592

Calibration Data

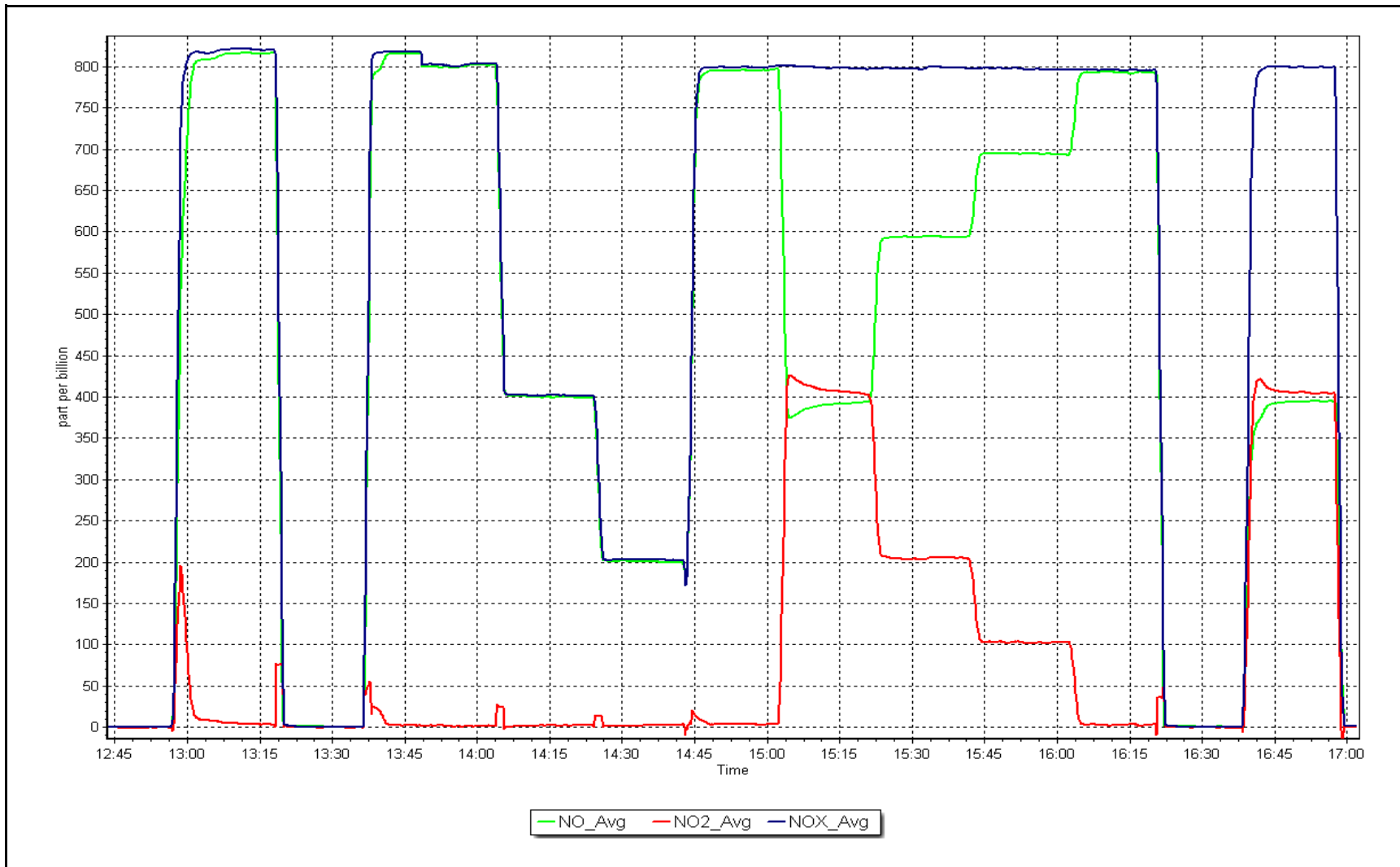
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.3	----	Correlation Coefficient	0.999976	≥0.995
404.0	405.4	0.9966	Slope	1.004950	0.90 - 1.10
203.3	205.4	0.9899	Intercept	-0.179382	+/-20
102.8	102.5	1.0033			



NO_x Calibration Plot

Date: February 13, 2026

Location: Fort Chipewyan





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Fort Chipewyan	Station number:	AMS 08
Calibration Date:	February 12, 2026	Last Cal Date:	January 7, 2026
Start time (MST):	9:00	End time (MST):	11:27
Reason:	Routine		

Calibration Standards

O3 generation mode:	Photometer	Serial Number:	3810
Calibrator Make/Model:	Teledyne API T700	Serial Number:	135
ZAG Make/Model:	Teledyne API T701		

Analyzer Information

Analyzer make:	Thermo 49i	Analyzer serial #:	1152220026
Analyzer Range	0 - 500 ppb		

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Calibration slope:	1.004971	1.000486	Backgd or Offset:	-2.6
Calibration intercept:	1.780000	1.540000	Coeff or Slope:	1.002

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.7	----
As found High point	5000	968.7	400.0	402.3	0.996
As found Mid point					
As found Low point					
Baseline Corr As found:	401.6	Previous response	403.8	*% change	-0.5%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.9	----
High point	5000	968.7	400.0	401.4	0.997
Mid point	5000	820.5	200.0	202.0	0.990
Low point	5000	720.0	100.0	102.2	0.978
As left zero	5000	0.0	0.0	1.2	----
As left span	5000	968.7	400.0	403.1	0.992
Average Correction Factor					0.988

Notes: Changed inlet filters after as founds.

Calibration Performed By: Matthew Courtoreille



Wood Buffalo Environmental Association

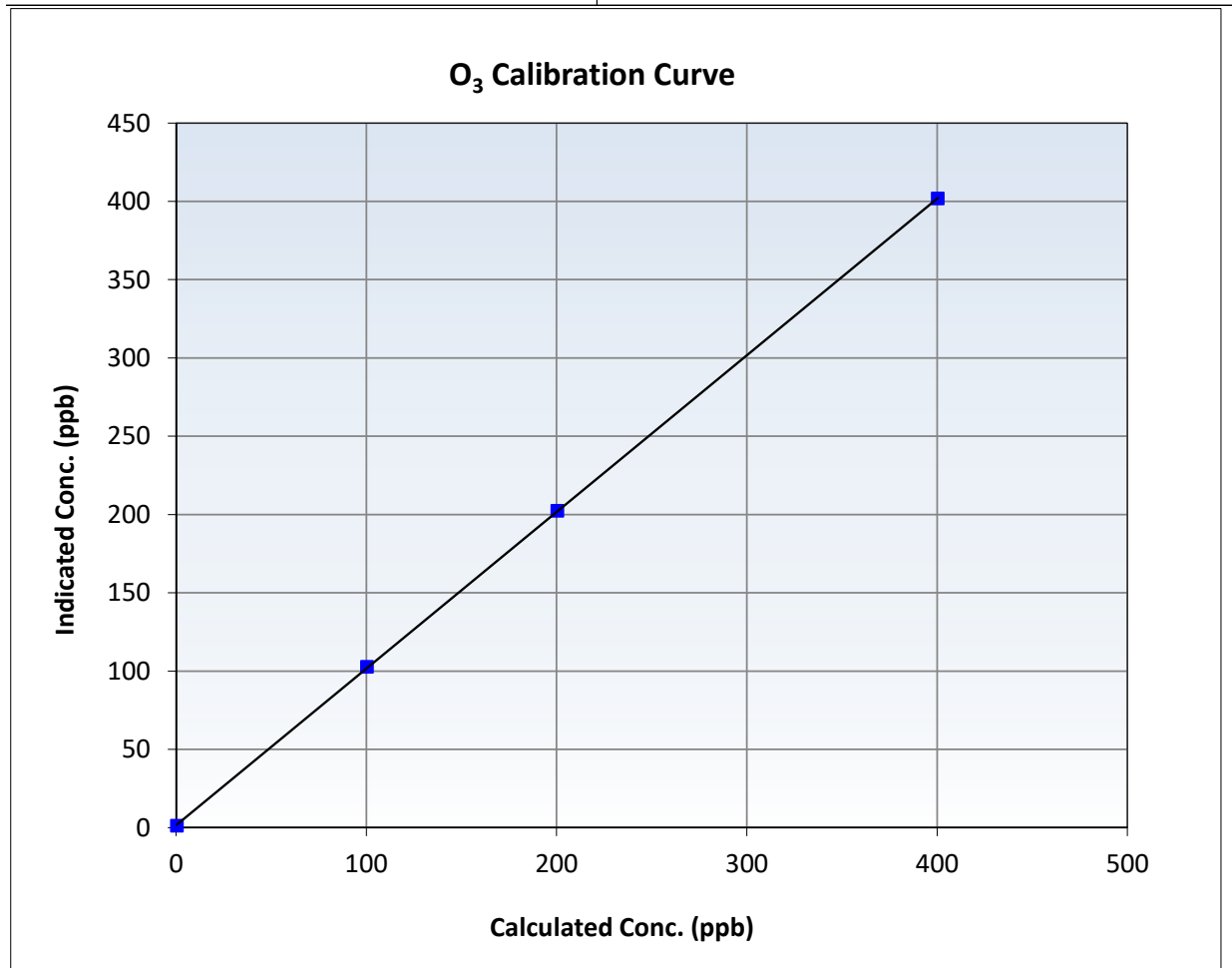
O₃ Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 7, 2026
Station Name:	Fort Chipewyan	Station Number:	AMS 08
Start Time (MST):	9:00	End Time (MST):	11:27
Analyzer make:	Thermo 49i	Analyzer serial #:	1152220026

Calibration Data

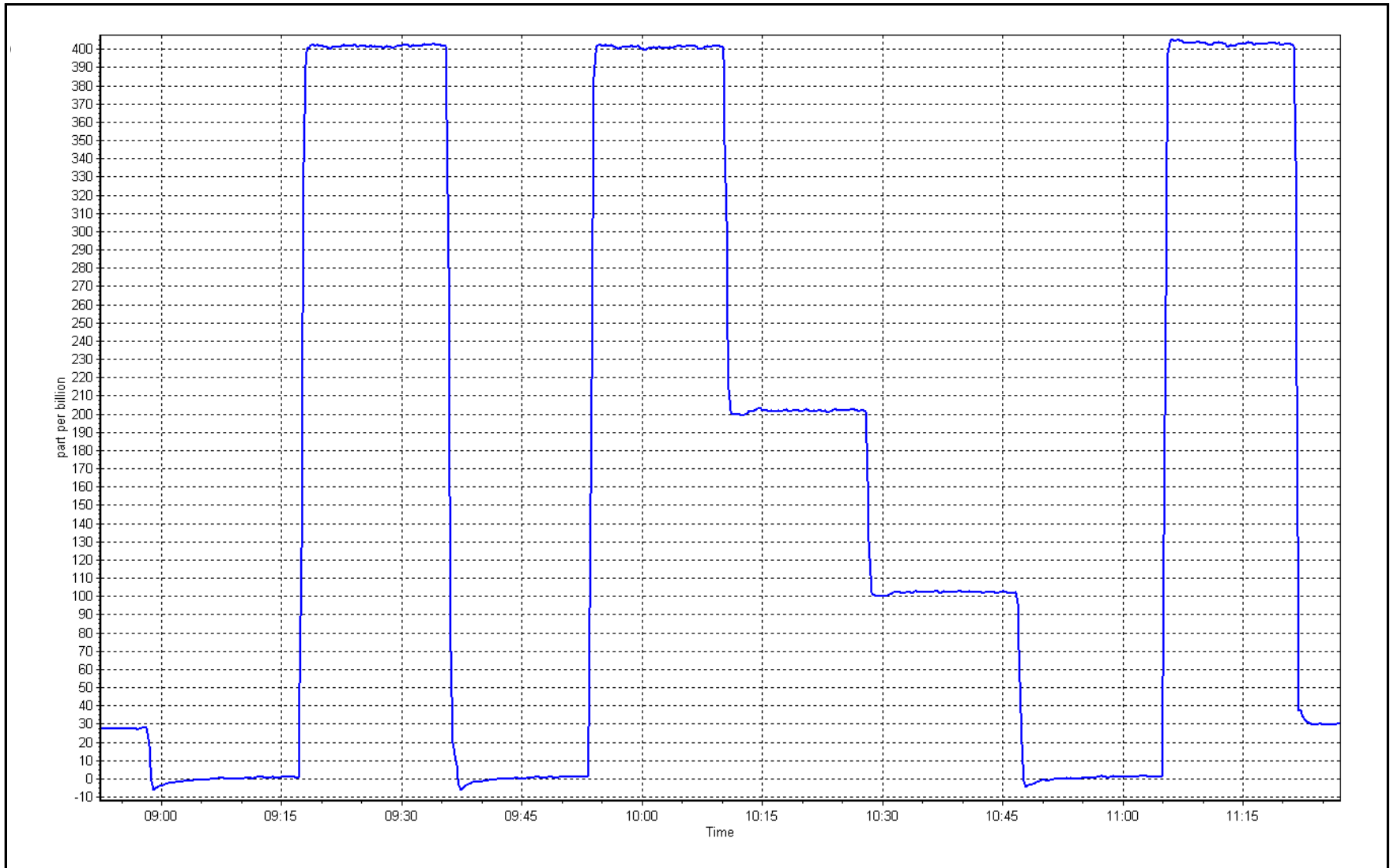
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.9	----	Correlation Coefficient	0.999988	≥0.995
400.0	401.4	0.9965	Slope	1.000486	0.90 - 1.10
200.0	202.0	0.9901	Intercept	1.540000	+/- 5
100.0	102.2	0.9785			



O₃ Calibration Plot

Date: February 12, 2026

Location: Fort Chipewyan





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Fort Chipewyan Station number: AMS 08
 Calibration Date: February 13, 2026 Last Cal Date: January 29, 2026
 Start time (MST): 11:38 End time (MST): 12:35

Analyzer Make: Teledyne API T640 S/N: 319
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388749
 Temp/RH standard: Alicat FP-25BT S/N: 388749

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-5.7	-5.77	-5.7	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	732.1	733.10	732.1	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	5.00	5.00	5.00	<input type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	33%	NA	33%	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	3.50	PM w/ HEPA: _____	0.00	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: 10.90 Expiry Date: 30-Jan-27
 Lot No.: 100128-050-051

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test				<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: _____ December 3, 2025
 Date Disposable Filter Changed: _____ December 3, 2025

Post- maintenance Zero Verification: PM w/ HEPA: _____ 0.00 <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: _____ December 3, 2025
 Date RH/T Sensor Cleaned: _____ December 3, 2025

Notes: Verified flows, temp, and pressure, all good. Leak check passed.

Calibration by: Matthew courtoreille



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS09 BARGE LANDING FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Barge Landing	Station number:	AMS 09
Calibration Date:	February 9, 2026	Last Cal Date:	January 14, 2026
Start time (MST):	11:09	End time (MST):	14:00
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.56	ppm	Cal Gas Exp Date: October 9, 2032
Cal Gas Cylinder #:	CC705748		
Removed Cal Gas Conc:	50.56	ppm	Rem Gas Exp Date: NA
Removed Gas Cyl #:	NA		Diff between cyl:
Calibrator Model:	API T700P		Serial Number: 2464
Zero Air Gen Model:	APIT701		Serial Number: 5613

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	1118148498
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.000829	1.001287	Backgd or Offset:	12.2	12.2
Calibration intercept:	-1.278382	-0.738518	Coeff or Slope:	1.036	1.036

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4921	79.1	799.8	800.4	0.999
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	800.3	Previous response	799.2	*% change	0.1%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.3	----
High point	4921	79.1	799.8	800.7	0.999
Mid point	4961	39.5	399.4	398.5	1.002
Low point	4980	19.8	200.2	198.8	1.007
As left zero	5000	0.0	0.0	0.3	----
As left span	4921	79.1	799.8	801.0	0.999
Average Correction Factor:					1.003

Notes: Sample inlet filter was changed after as founds. No adjustments needed

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

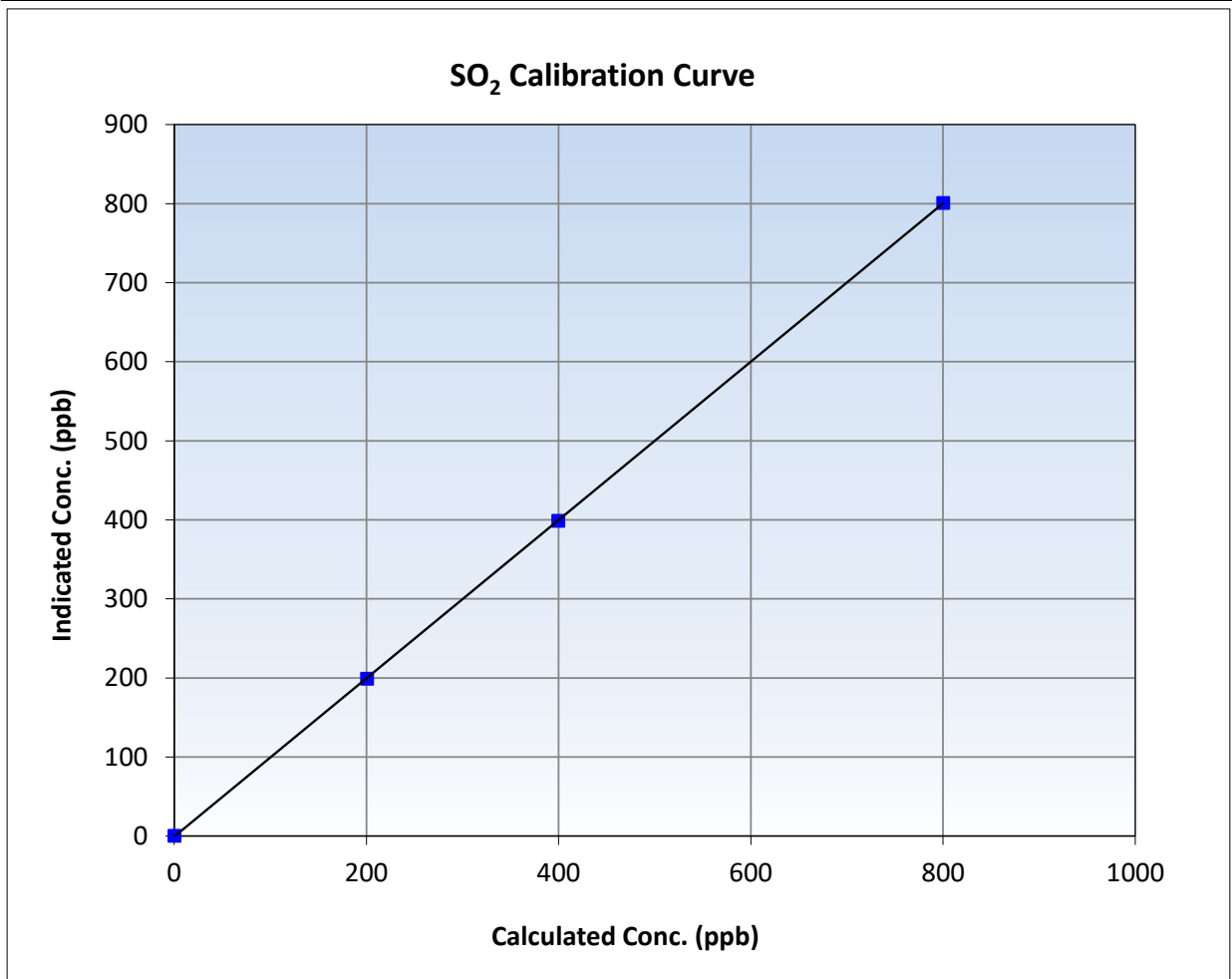
SO₂ Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 14, 2026
Station Name:	Barge Landing	Station Number:	AMS 09
Start Time (MST):	11:09	End Time (MST):	14:00
Analyzer make:	Thermo 43i	Analyzer serial #:	1118148498

Calibration Data

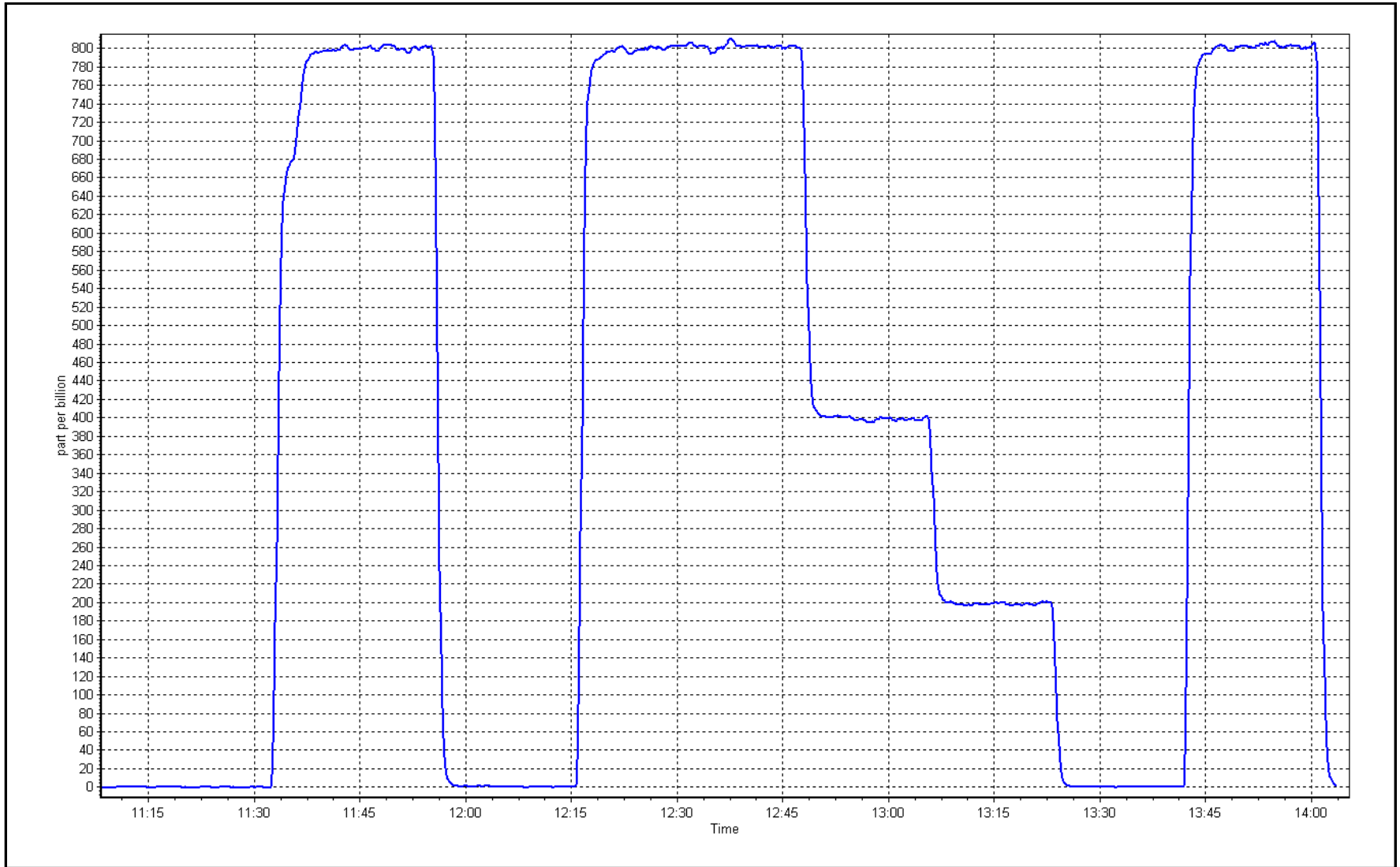
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.3	----	Correlation Coefficient	0.999992	≥0.995
799.8	800.7	0.9989	Slope	1.001287	0.90 - 1.10
399.4	398.5	1.0022	Intercept	-0.738518	+/-30
200.2	198.8	1.0072			



SO2 Calibration Plot

Date: February 9, 2026

Location: Barge Landing





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name:	Barge Landing	Station number:	AMS 09
Calibration Date:	February 20, 2026	Last Cal Date:	January 15, 2026
Start time (MST):	6:58	End time (MST):	11:16
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	5.17 ppm	Cal Gas Exp Date:	August 22, 2026
Cal Gas Cylinder #:	CC511415		
Removed Cal Gas Conc:	5.17 ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA	Diff between cyl:	
Calibrator Make/Model:	API T700	Serial Number:	3812
ZAG Make/Model:	API T701	Serial Number:	5613

Analyzer Information

Analyzer make:	Thermo 43iQ-TLE	Analyzer serial #:	1203169744
Converter make:	CDN-101	Converter serial #:	519
Analyzer Range	0 - 100 ppb	Converter Temp:	830 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.993555	1.001407	Backgd or Offset:	1.890	1.910
Calibration intercept:	-0.080743	0.019375	Coeff or Slope:	0.729	0.740

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4923	77.4	80.0	78.7	1.017
As found Mid point	4961	38.7	40.0	39.3	1.018
As found Low point	4981	19.3	20.0	19.6	1.018
New cylinder response					
Baseline Corr As found:	78.7	Prev response:	79.44	*% change:	-0.9%
Baseline Corr 2nd AF pt:	39.3	AF Slope:	0.983276	AF Intercept:	-0.020923
Baseline Corr 3rd AF pt:	19.6	AF Correlation:	0.999999	<i>* = > +/-5% change initiates investigation</i>	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.1	----
High point	4923	77.4	80.0	80.2	0.998
Mid point	4961	38.7	40.0	40.1	0.998
Low point	4981	19.3	20.0	19.9	1.003
As left zero	5000	0.0	0.0	0.1	----
As left span	4923	77.4	80.0	80.7	0.992
SO2 Scrubber Check	4920	80.2	802.0	0.0	----
Date of last scrubber change:	8-Jul-25			Ave Corr Factor	1.000
Date of last converter efficiency test:					

Notes: Sox scrubber checked after the calibrator zero. Span adjusted.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

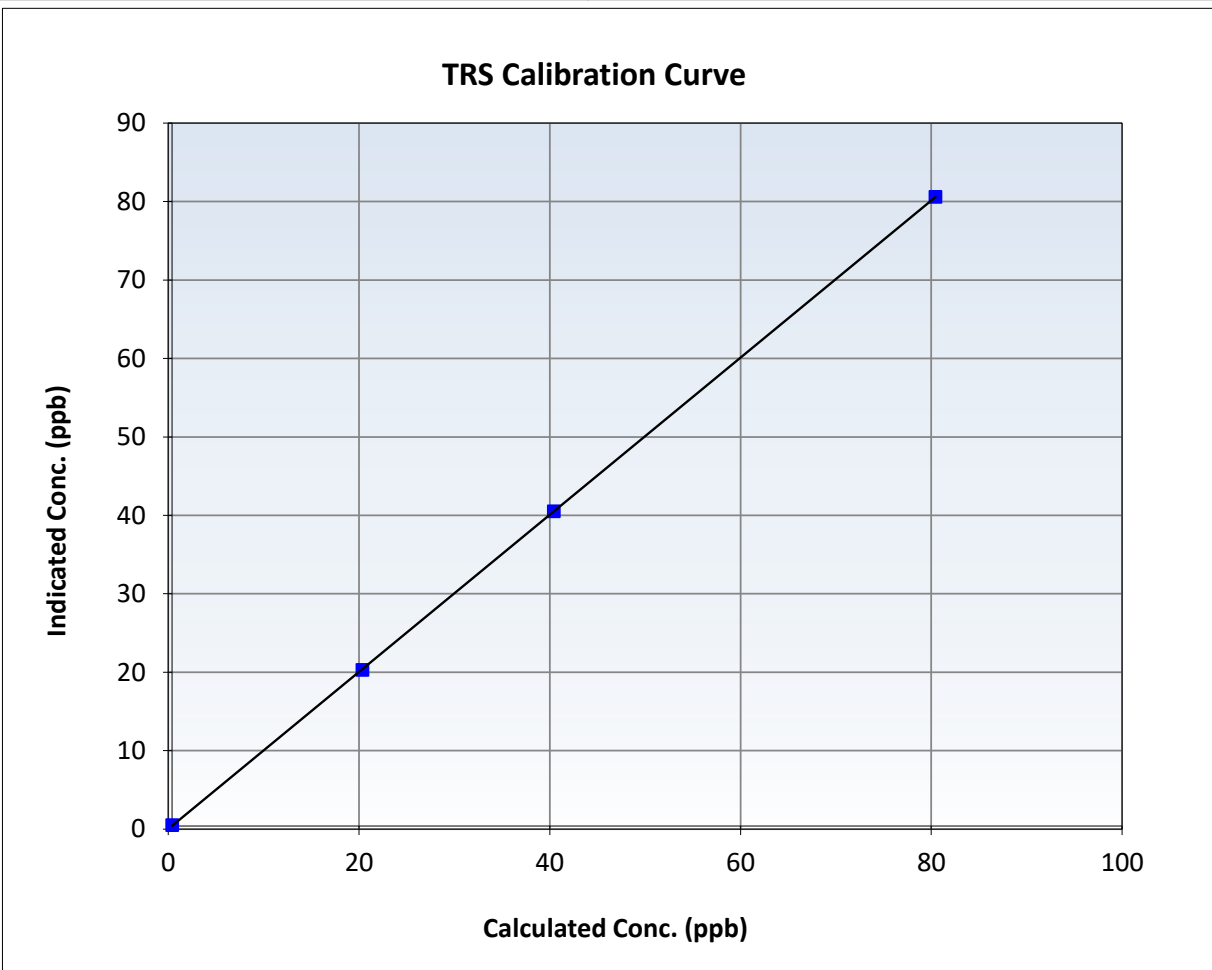
TRS Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 15, 2026
Station Name:	Barge Landing	Station Number:	AMS 09
Start Time (MST):	6:58	End Time (MST):	11:16
Analyzer make:	Thermo 43iQ-TLE	Analyzer serial #:	1203169744

Calibration Data

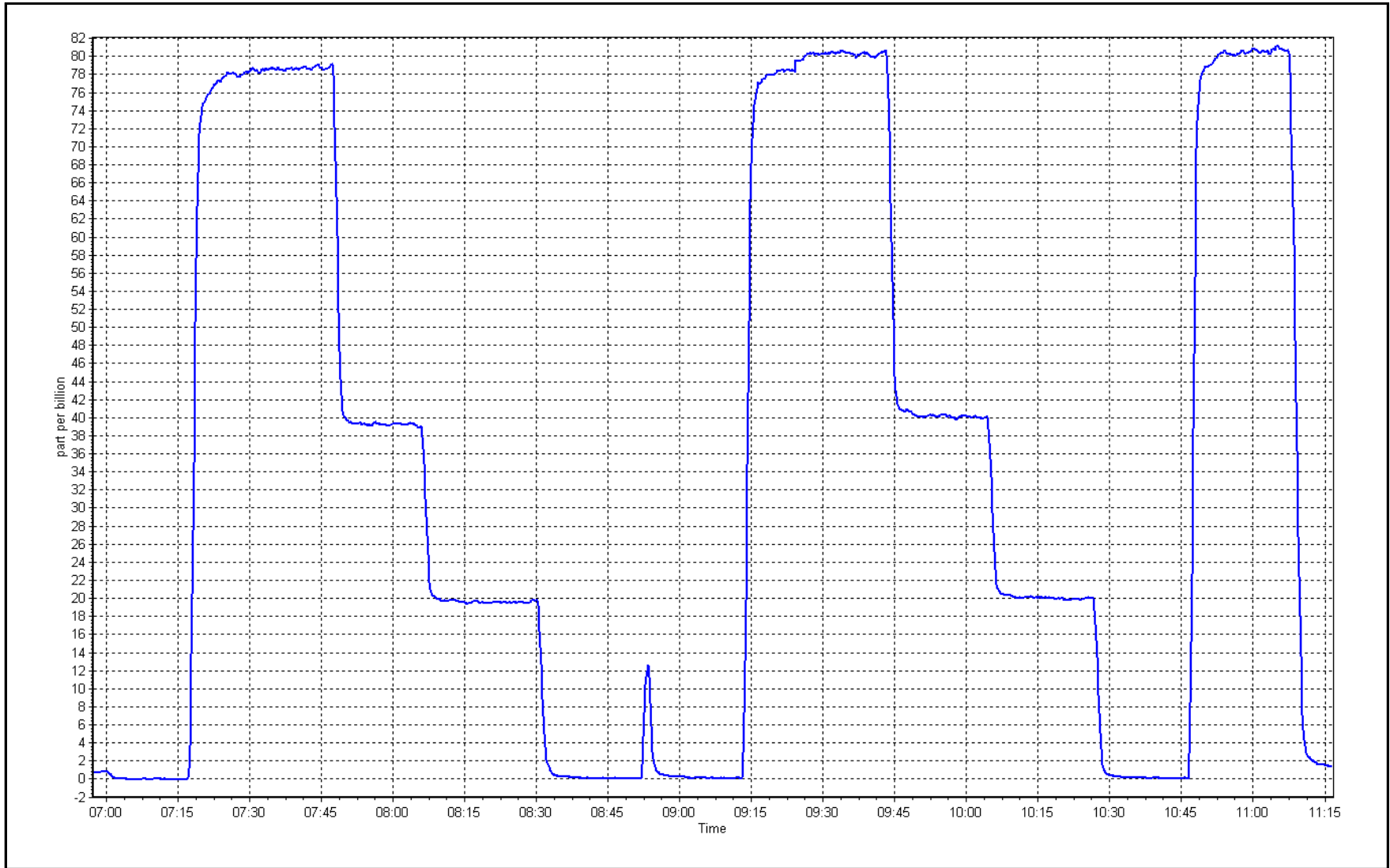
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.1	----	Correlation Coefficient	0.999995	≥ 0.995
80.0	80.2	0.9980	Slope	1.001407	$0.90 - 1.10$
40.0	40.1	0.9982	Intercept	0.019375	± 3
20.0	19.9	1.0030			



TRS Calibration Plot

Date: February 20, 2026

Location: Barge Landing





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Barge Landing	Station number:	AMS 09
Calibration Date:	February 9, 2026	Last Cal Date:	January 14, 2026
Start time (MST):	11:09	End time (MST):	14:00
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC705748	Cal Gas Expiry Date:	October 9, 2032
CH4 Cal Gas Conc.	505.6 ppm	CH4 Equiv Conc.	1068.8 ppm
C3H8 Cal Gas Conc.	204.8 ppm		
Removed Gas Cert:	CC151285	Removed Gas Expiry:	January 5, 2025
Removed CH4 Conc.	505.6 ppm	CH4 Equiv Conc.	1068.8 ppm
Removed C3H8 Conc.	204.8 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	API T700P	Serial Number:	2464
Zero Air Gen model:	APIT701	Serial Number:	5613

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1193585650
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.42E-04	2.36E-04	NMHC SP Ratio: 5.67E-05	5.64E-05
CH4 Retention time:	14.4	14.4	NMHC Peak Area: 157013	158052
Zero Chromatogram:	OFF	OFF	Flat Baseline: OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	79.1	16.91	17.26	0.980
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	17.26	Prev response	16.91	*% change	2.0%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	79.1	16.91	16.90	1.000
Mid point	4961	39.5	8.44	8.36	1.009
Low point	4980	19.8	4.23	4.12	1.027
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	79.1	16.91	16.93	0.999
Average Correction Factor					1.012

Notes: Sample inlet filter was changed after as founds. Adjusted span only.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	79.1	8.91	9.08	0.982
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	9.08	Prev response	8.94	*% change	1.5%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	79.1	8.91	8.91	1.000
Mid point	4961	39.5	4.45	4.42	1.006
Low point	4980	19.8	2.23	2.17	1.026
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	79.1	8.91	8.95	0.996
Average Correction Factor					1.011

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	79.1	8.00	8.19	0.977
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.19	Prev response	7.97	*% change	2.7%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	79.1	8.00	8.00	1.000
Mid point	4961	39.5	3.99	3.94	1.014
Low point	4980	19.8	2.00	1.95	1.027
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	79.1	8.00	7.98	1.002
Average Correction Factor					1.014

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	1.003581	1.001464
THC Cal Offset:	-0.059576	-0.059168
CH ₄ Cal Slope:	0.999831	1.001318
CH ₄ Cal Offset:	-0.027790	-0.031993
NMHC Cal Slope:	1.006652	1.001813
NMHC Cal Offset:	-0.031384	-0.027776

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

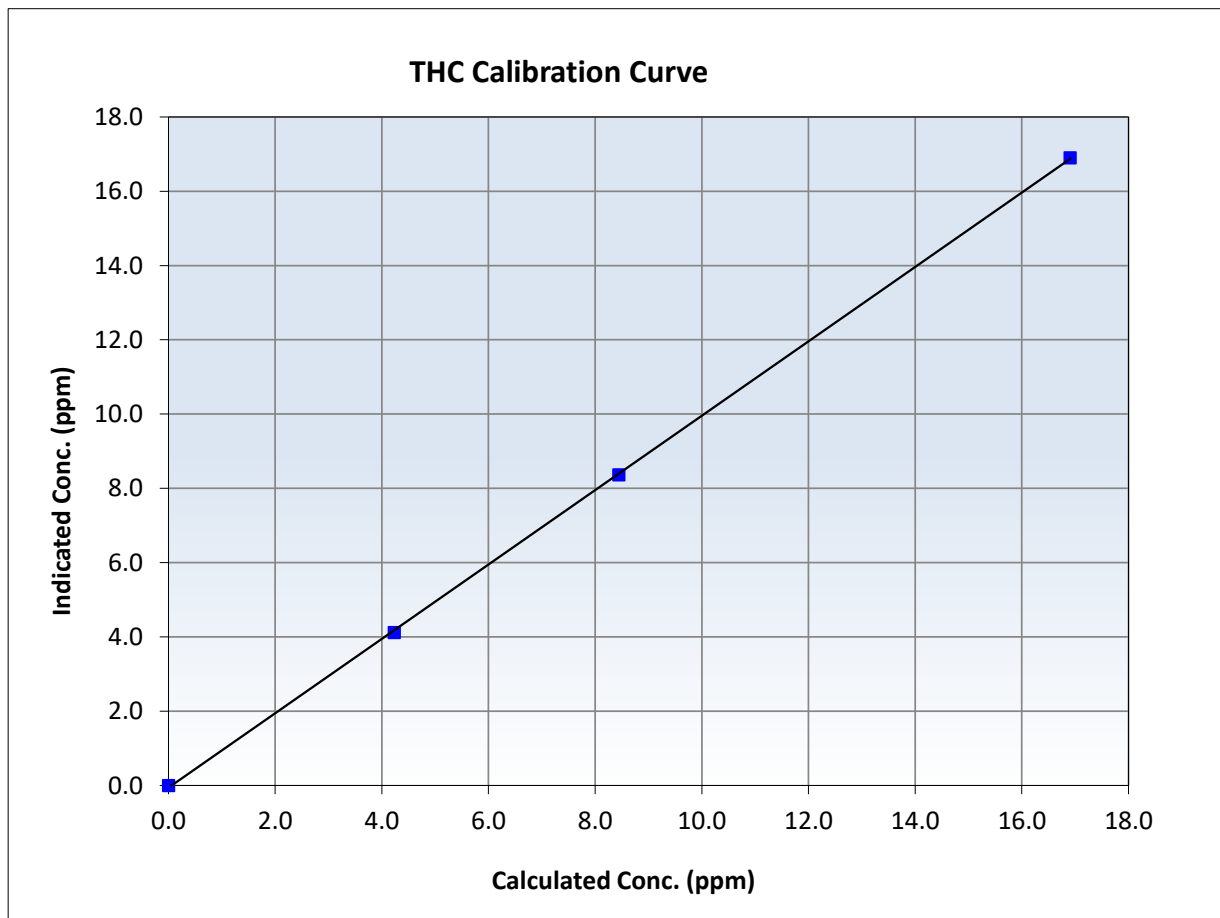
THC Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 14, 2026
Station Name:	Barge Landing	Station Number:	AMS 09
Start Time (MST):	11:09	End Time (MST):	14:00
Analyzer make:	Thermo 55i	Analyzer serial #:	1193585650

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999944	<i>≥0.995</i>
16.91	16.90	1.0002	Slope	1.001464	<i>0.90 - 1.10</i>
8.44	8.36	1.0094	Intercept	-0.059168	<i>+/-0.5</i>
4.23	4.12	1.0268			





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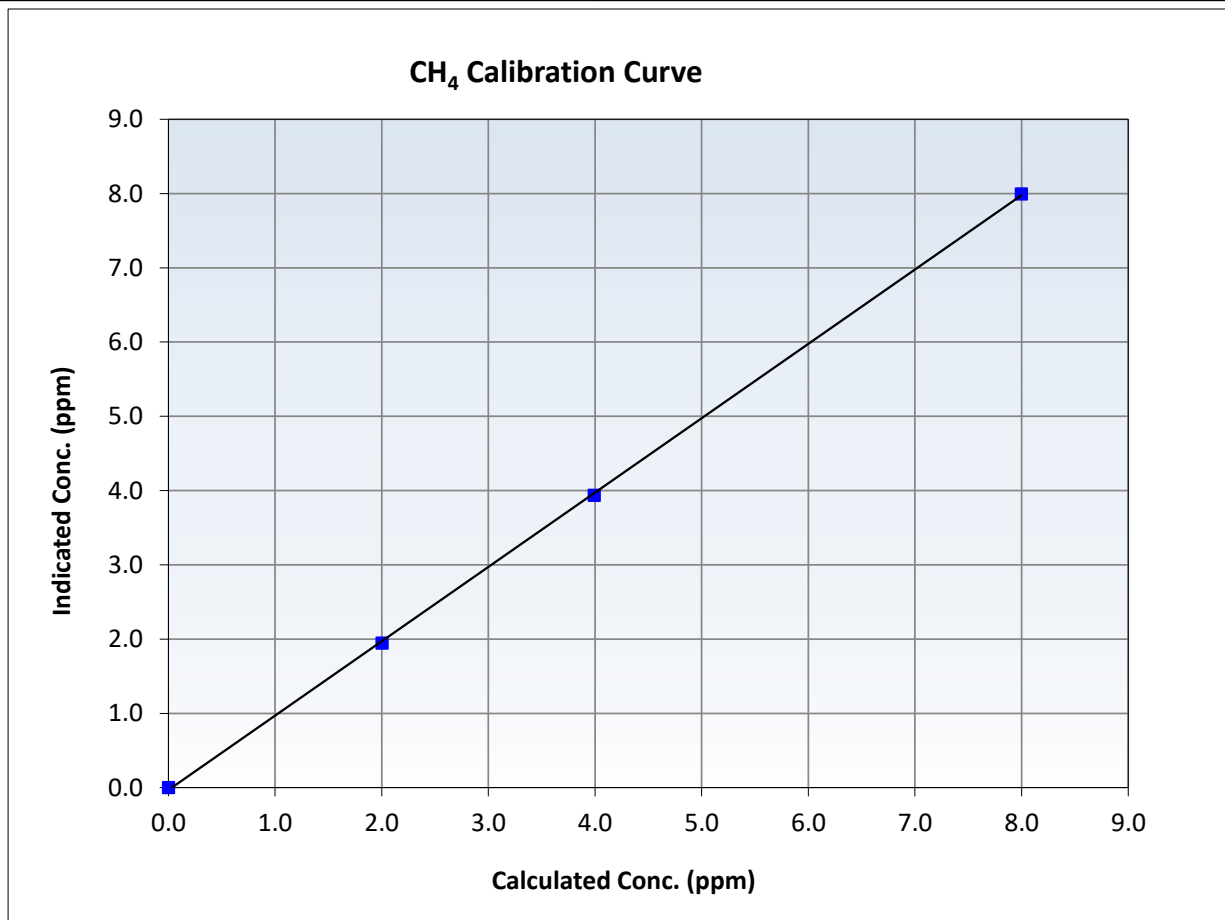
CH₄ Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 14, 2026
Station Name:	Barge Landing	Station Number:	AMS 09
Start Time (MST):	11:09	End Time (MST):	14:00
Analyzer make:	Thermo 55i	Analyzer serial #:	1193585650

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999921	<i>≥0.995</i>
8.00	8.00	1.0002	Slope	1.001318	<i>0.90 - 1.10</i>
3.99	3.94	1.0139	Intercept	-0.031993	<i>+/-0.5</i>
2.00	1.95	1.0273			





Wood Buffalo Environmental Association

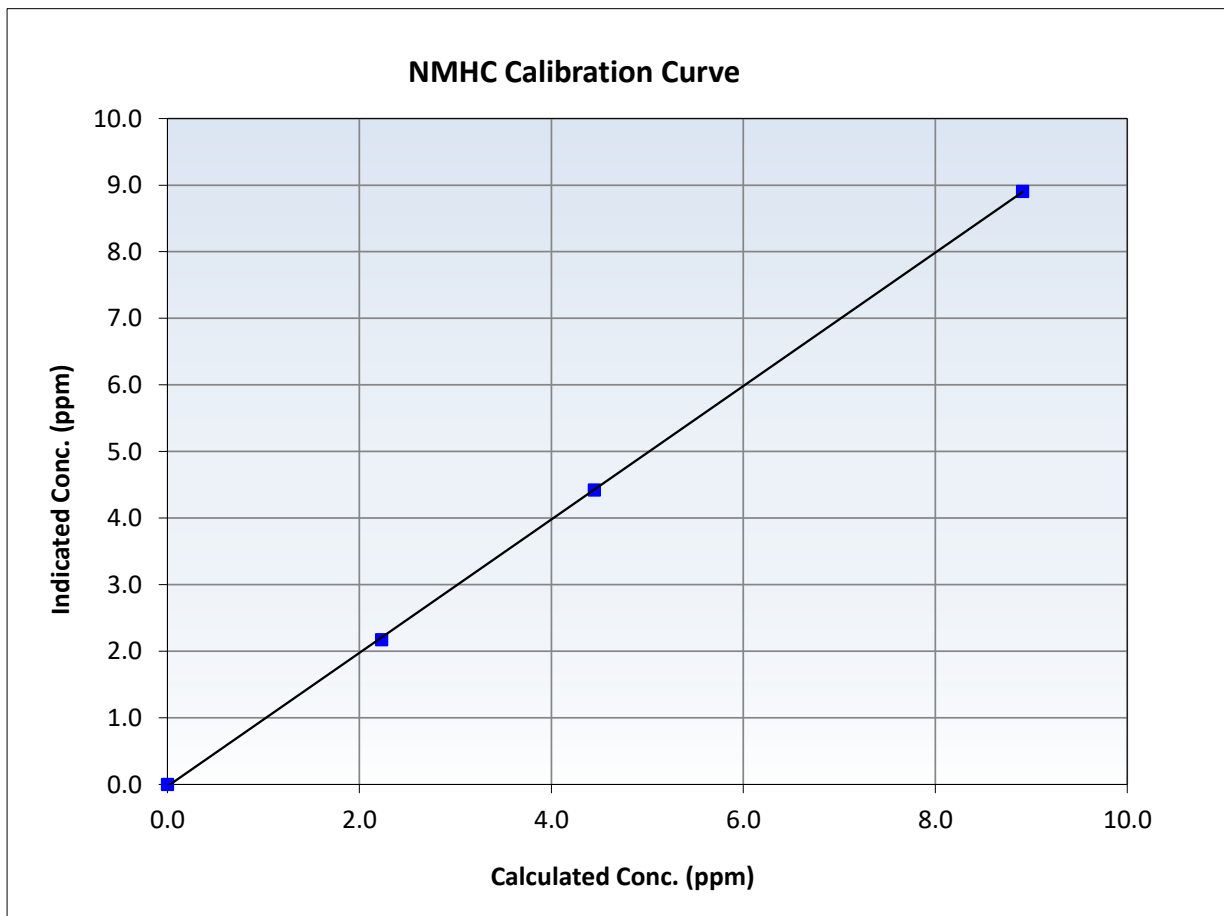
NMHC Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 14, 2026
Station Name:	Barge Landing	Station Number:	AMS 09
Start Time (MST):	11:09	End Time (MST):	14:00
Analyzer make:	Thermo 55i	Analyzer serial #:	1193585650

Calibration Data

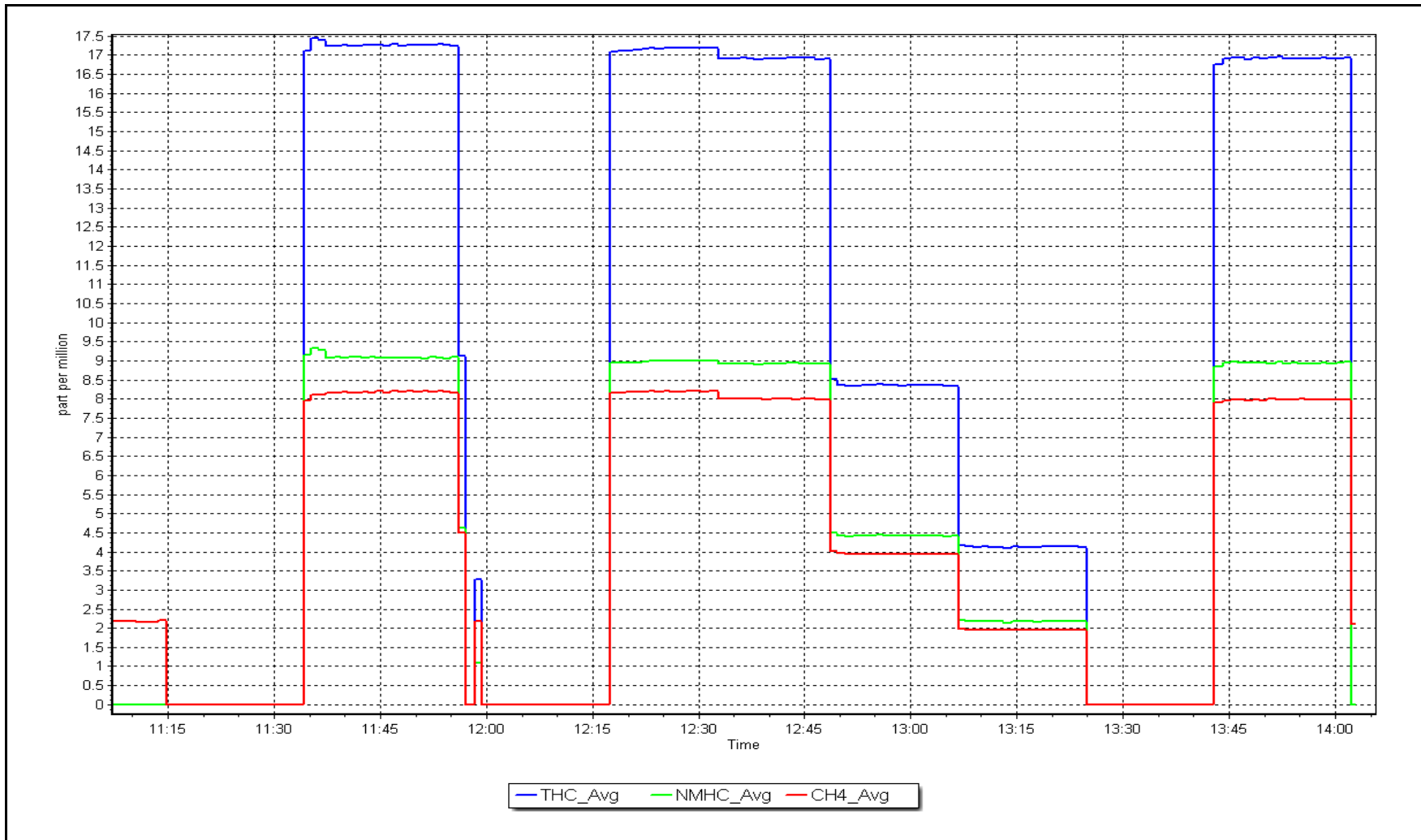
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999953	<i>≥0.995</i>
8.91	8.91	1.0001	Slope	1.001813	<i>0.90 - 1.10</i>
4.45	4.42	1.0056	Intercept	-0.027776	<i>+/-0.5</i>
2.23	2.17	1.0264			



NMHC Calibration Plot

Date: February 9, 2026

Location: Barge Landing





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Barge Landing
 Station number: AMS 09
 Calibration Date: February 12, 2026
 Last Cal Date: January 19, 2026
 Start time (MST): 10:12
 End time (MST): 15:25
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: T2Y1KDH
 NOX Cal Gas Conc: 47.38 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 47.38 ppm
 NOX gas Diff:
 Calibrator Model: API 700
 ZAG make/model: API T701
 Cal Gas Expiry Date: November 17, 2026
 NO Cal Gas Conc: 46.94 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 46.94 ppm
 NO gas Diff:
 Serial Number: 3812
 Serial Number: 4888

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.2	-0.1	-0.1	----	----
AF High point	4915	85.3	808.3	800.7	7.5	787.2	775.1	12.1	1.0265	1.0330
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 807.2 ppb	NO = 798.8 ppb				<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -2.5%	
Baseline Corr 1st pt	NO _x = 787.4 ppb	NO = 775.2 ppb				<u>As Found Statistics</u>		*Percent Change	NO = -3.0%	
Baseline Corr 2nd pt	NO _x = NA ppb	NO = NA ppb				As found NO _x r ² :		Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb	NO = NA ppb				As found NO r ² :		NO SI:	NO Int:	
						As found NO ₂ r ² :		NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1426262593

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.999206	0.999330
NO _x Cal Offset:	-0.442061	0.538999
NO Cal Slope:	0.999154	1.000165
NO Cal Offset:	-1.244122	-0.623032
NO ₂ Cal Slope:	1.003001	1.008995
NO ₂ Cal Offset:	-0.801999	-0.095328

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.103	1.141	NO bkgnd or offset:	10.1	10.5
NOX coeff or slope:	1.002	1.002	NOX bkgnd or offset:	10.5	10.8
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	173.7	173.7

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOX concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOX concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOX Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.1	0.1	0.0	----	----
High point	4915	85.3	808.3	800.7	7.5	807.1	799.7	7.4	1.0014	1.0013
Mid point	4957	42.6	403.7	400.0	3.7	407.0	401.8	5.2	0.9919	0.9954
Low point	4979	21.3	201.8	200.0	1.9	200.8	196.8	4.0	1.0051	1.0160
As left zero	5000	0.0	0.0	0.0	0.0	-0.1	0.0	-0.2	----	----
As left span	4915	85.3	808.3	407.4	400.9	799.4	407.4	392.0	1.0111	1.0000
Average Correction Factor									0.9995	1.0043

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.0	----	----
High GPT point	789.1	405.9	390.7	394.3	0.9909	100.9%
Mid GPT point	789.1	595.8	200.8	202.1	0.9936	100.6%
Low GPT point	789.1	691.8	104.8	105.8	0.9906	100.9%
Average Correction Factor					0.9917	100.8%

Notes: Inlet filter changed after as founds. Adjusted span only. Used the second NO reference point for GPT

Calibration Performed By: Jason Brooks



Wood Buffalo Environmental Association

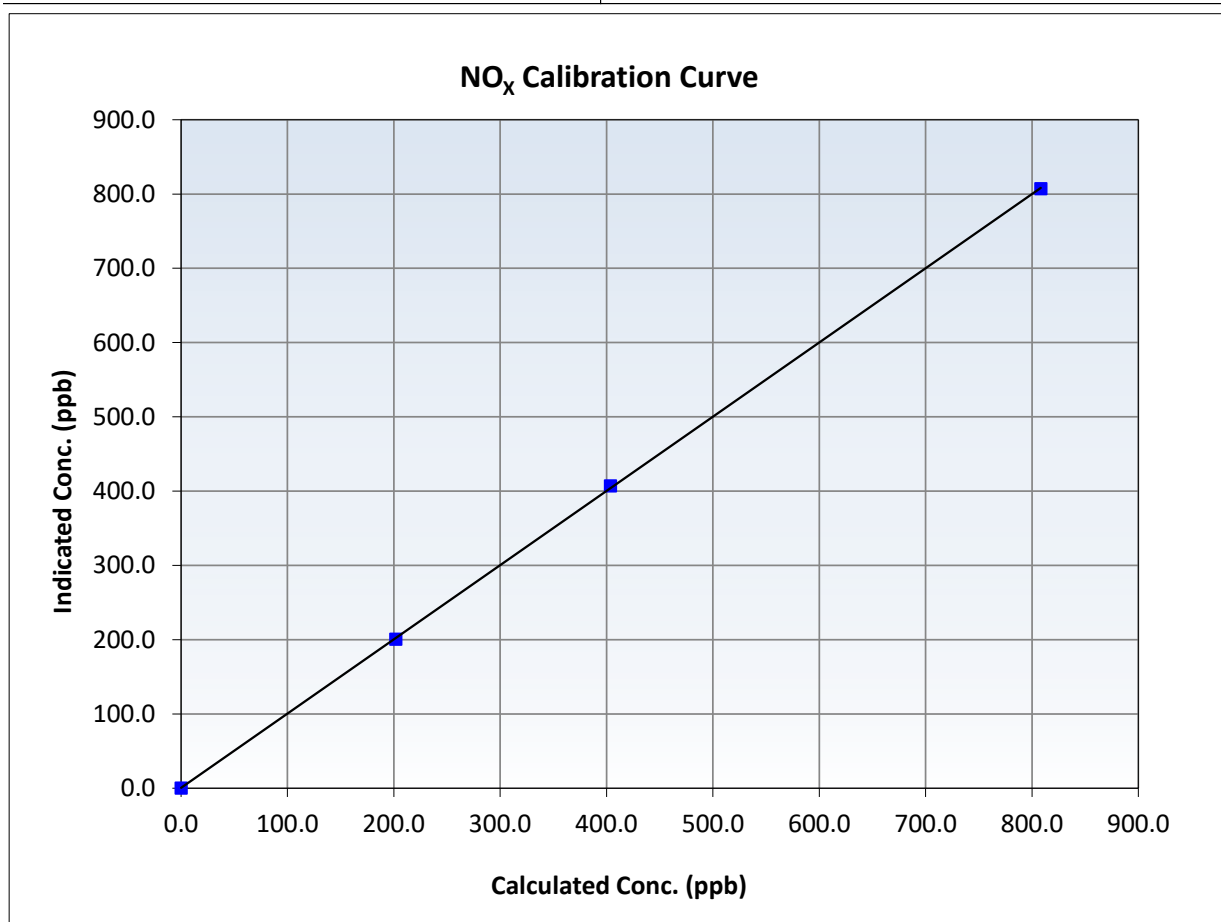
NO_x Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 19, 2026
Station Name:	Barge Landing	Station Number:	AMS 09
Start Time (MST):	10:12	End Time (MST):	15:25
Analyzer make:	Thermo 42i	Analyzer serial #:	1426262593

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999964	<i>≥0.995</i>
808.3	807.1	1.0014	Slope	0.999330	<i>0.90 - 1.10</i>
403.7	407.0	0.9919	Intercept	0.538999	<i>+/-20</i>
201.8	200.8	1.0051			





Wood Buffalo Environmental Association

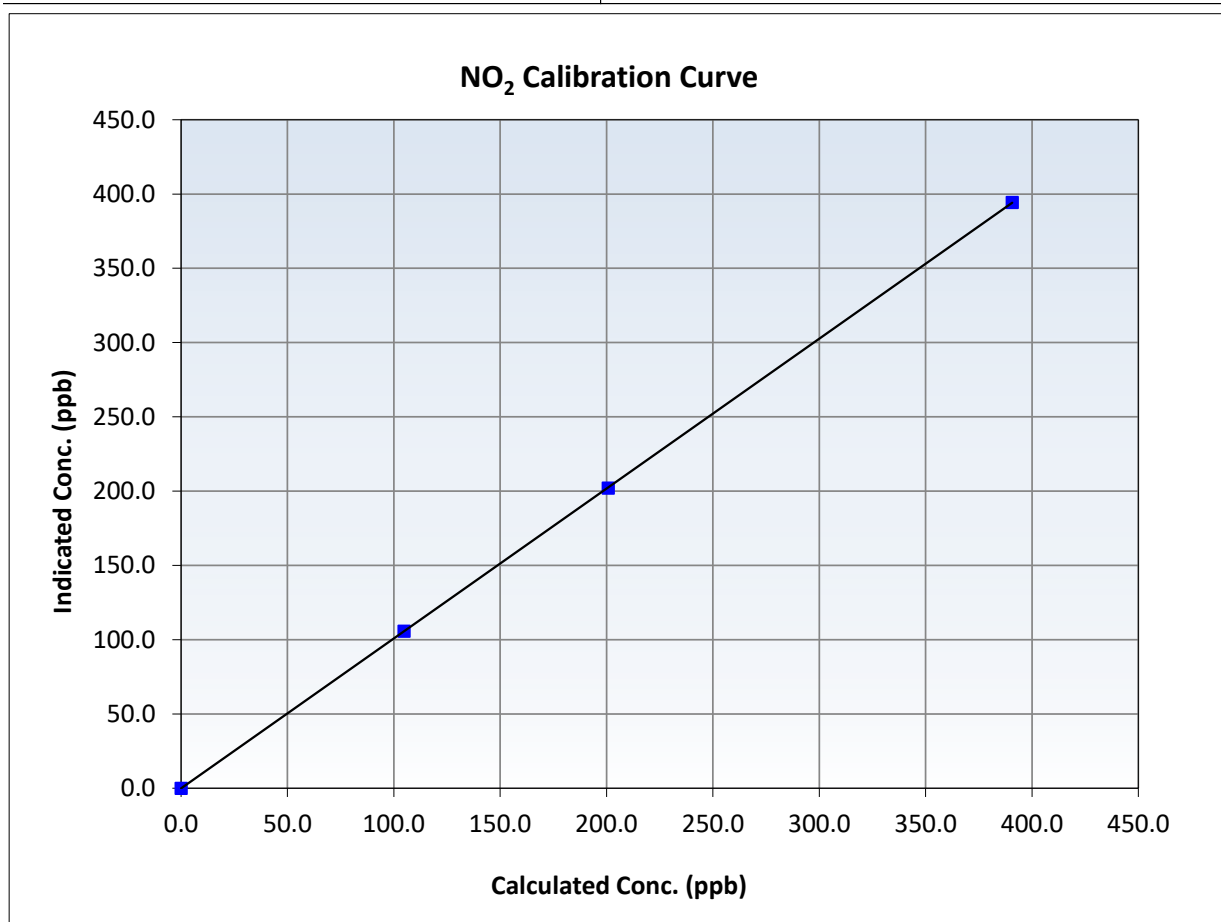
NO₂ Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 19, 2026
Station Name:	Barge Landing	Station Number:	AMS 09
Start Time (MST):	10:12	End Time (MST):	15:25
Analyzer make:	Thermo 42i	Analyzer serial #:	1426262593

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999997	<i>≥0.995</i>
390.7	394.3	0.9909	Slope	1.008995	<i>0.90 - 1.10</i>
200.8	202.1	0.9936	Intercept	-0.095328	<i>+/-20</i>
104.8	105.8	0.9906			





Wood Buffalo Environmental Association

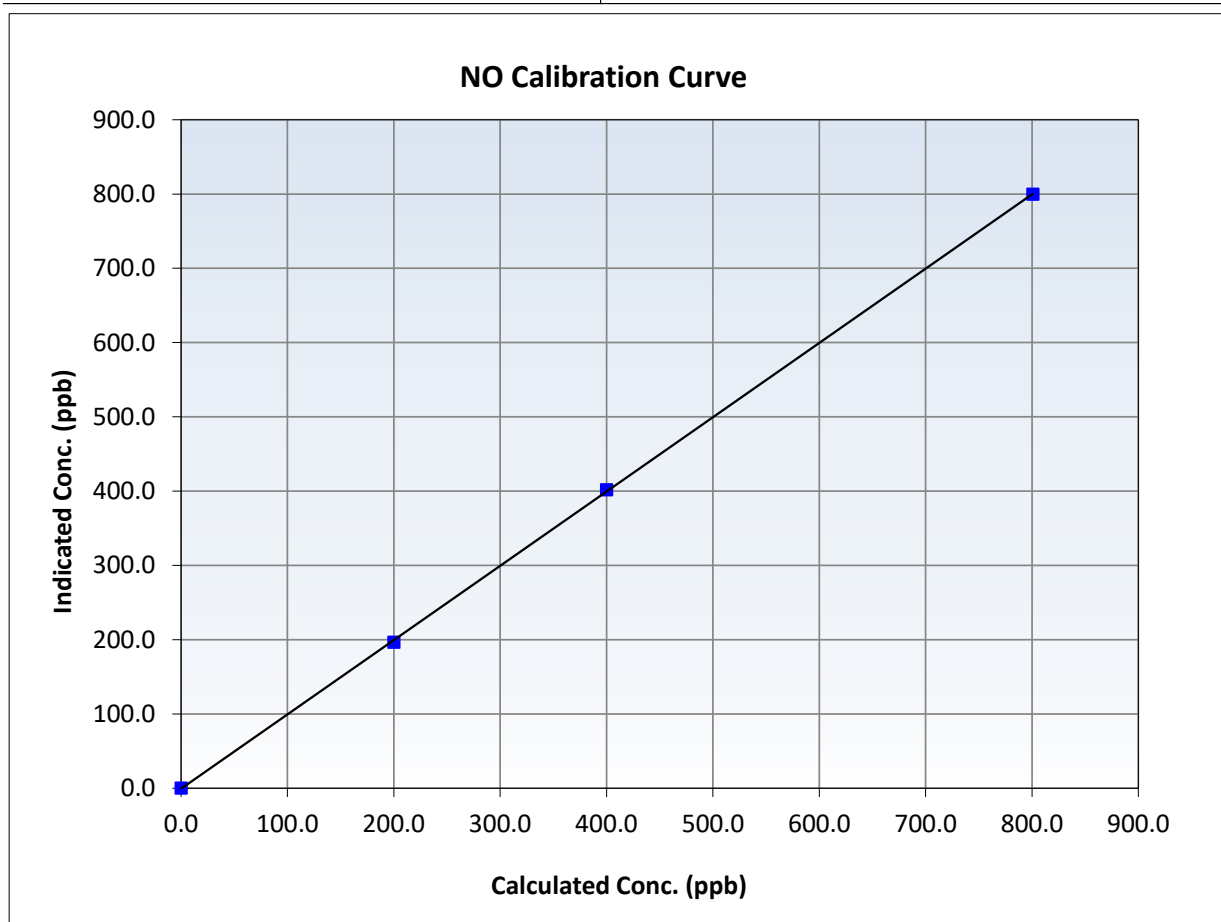
NO Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 19, 2026
Station Name:	Barge Landing	Station Number:	AMS 09
Start Time (MST):	10:12	End Time (MST):	15:25
Analyzer make:	Thermo 42i	Analyzer serial #:	1426262593

Calibration Data

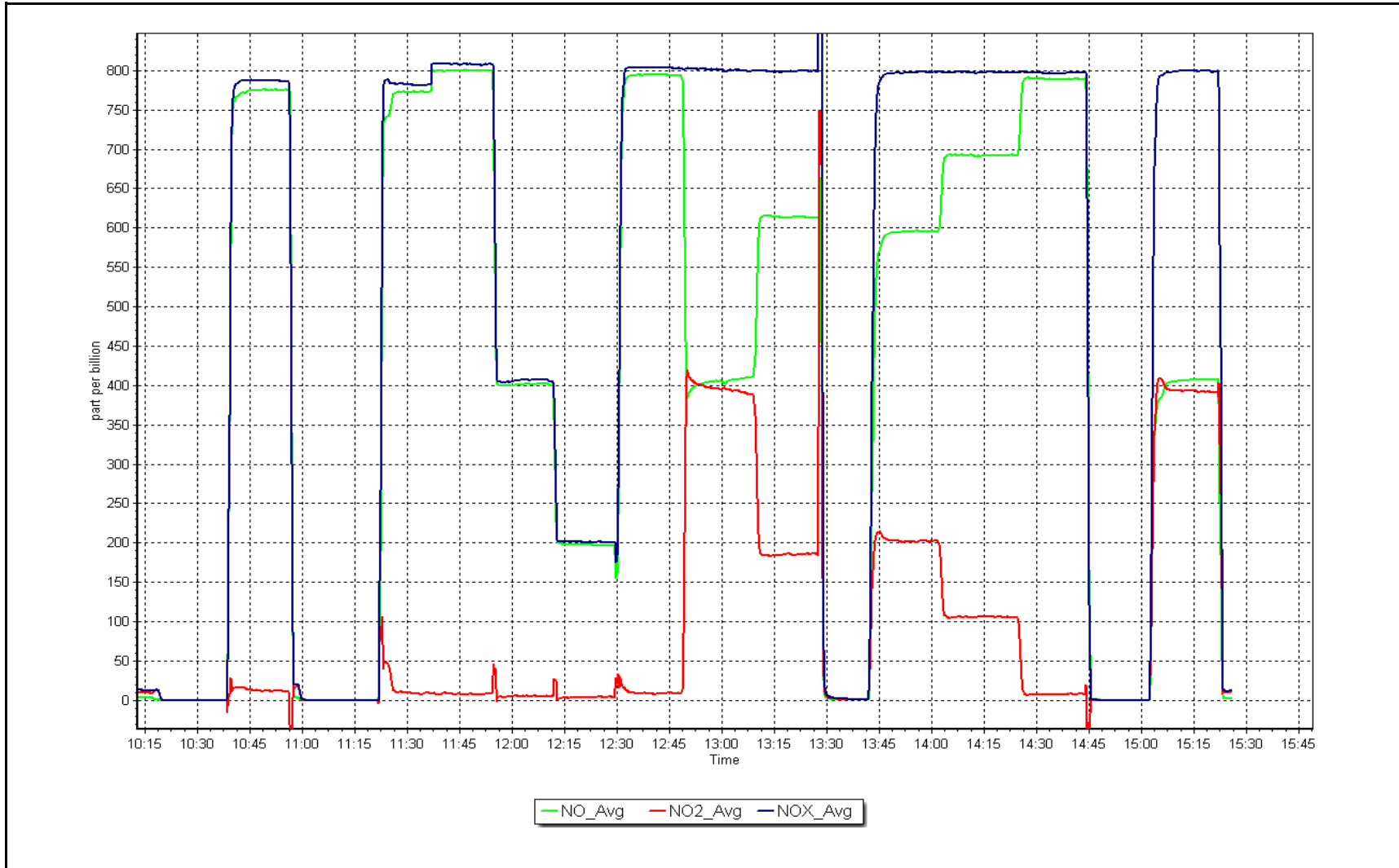
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999963	<i>≥0.995</i>
800.7	799.7	1.0013	Slope	1.000165	<i>0.90 - 1.10</i>
400.0	401.8	0.9954	Intercept	-0.623032	<i>+/-20</i>
200.0	196.8	1.0160			



NO_x Calibration Plot

Date: February 12, 2026

Location: Barge Landing





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Barge Landing Station number: AMS 09
 Calibration Date: February 23, 2026 Last Cal Date: January 26, 2026
 Start time (MST): 10:36 End time (MST): 11:36

Analyzer Make: API T640 S/N: 2237
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25 S/N: 388755
 Temp/RH standard: Alicat FP-25 S/N: 388755

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-17.40	-17.48	-17.40	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	737.40	735.89	737.40	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	4.93	8.17	5.02	<input checked="" type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	35	----	35	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	0.60	PM w/ HEPA: _____	0.00	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: **10.9** Expiry Date: January 30, 2027
 Lot No.: 100128-050-042

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test				<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: January 26, 2026
 Date Disposable Filter Changed: January 26, 2026

Post- maintenance Zero Verification: PM w/ HEPA: _____ <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: July 22, 2025
 Date RH/T Sensor Cleaned: July 22, 2025

Notes: Verified flow, pressure, temperature and pump power. Leak check passed. Sample flow adjusted.

Calibration by: Param Kaur



Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Barge Landing Station number: AMS 09
 Calibration Date: February 26, 2026 Last Cal Date: February 23, 2026
 Start time (MST): 15:03 End time (MST): 15:15

Analyzer Make: API T640 S/N: 2237
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25 S/N: 388748
 Temp/RH standard: Alicat FP-25 S/N: 388748

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-16.10	-16.60	-16.10	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	726.50	725.73	726.50	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	5.03	2.46	4.97	<input checked="" type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	16	----	33	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	7.60	PM w/ HEPA: _____	0.00	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: **10.9** Expiry Date: January 30, 2027
 Lot No.: 100128-050-042

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test				<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: January 26, 2026
 Date Disposable Filter Changed: January 26, 2026

Post- maintenance Zero Verification: PM w/ HEPA: _____ <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: July 22, 2025
 Date RH/T Sensor Cleaned: July 22, 2025

Notes: Checked flow, temp and pressure. Flow adjusted. Leak check passed.

Calibration by: Jason Brooks



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS11 LOWER CAMP FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Lower Camp	Station number:	AMS 11
Calibration Date:	February 11, 2026	Last Cal Date:	January 14, 2026
Start time (MST):	12:21	End time (MST):	15:38
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	48.75	ppm	Cal Gas Exp Date:	October 9, 2023
Cal Gas Cylinder #:	CC741503		Rem Gas Exp Date:	
Removed Cal Gas Conc:	48.75	ppm	Diff between cyl:	
Removed Gas Cyl #:	CC741503		Serial Number:	3811
Calibrator Model:	Teledyne API T700		Serial Number:	4428
Zero Air Gen Model:	Teledyne API T701			

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	100841398
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.002869	1.002156	Backgd or Offset:	19.5	19.5
Calibration intercept:	-0.912713	-0.712768	Coeff or Slope:	1.047	1.047

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.3	----
As found High point	4918	82.1	800.5	801.5	0.998
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	801.8	Previous response	801.8	*% change	0.0%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		<i>* = > +/-5% change initiates investigation</i>	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	4918	82.1	800.5	802.2	0.998
Mid point	4959	41.1	400.7	399.3	1.004
Low point	4980	20.5	199.9	199.8	1.000
As left zero	5000	0.0	0.0	0.1	----
As left span	4918	82.1	800.5	803.8	0.996
Average Correction Factor:					1.001

Notes: Sample inlet filter changed after as founds. No adjustments made.

Calibration Performed By: Mohammed Kashif



Wood Buffalo Environmental Association

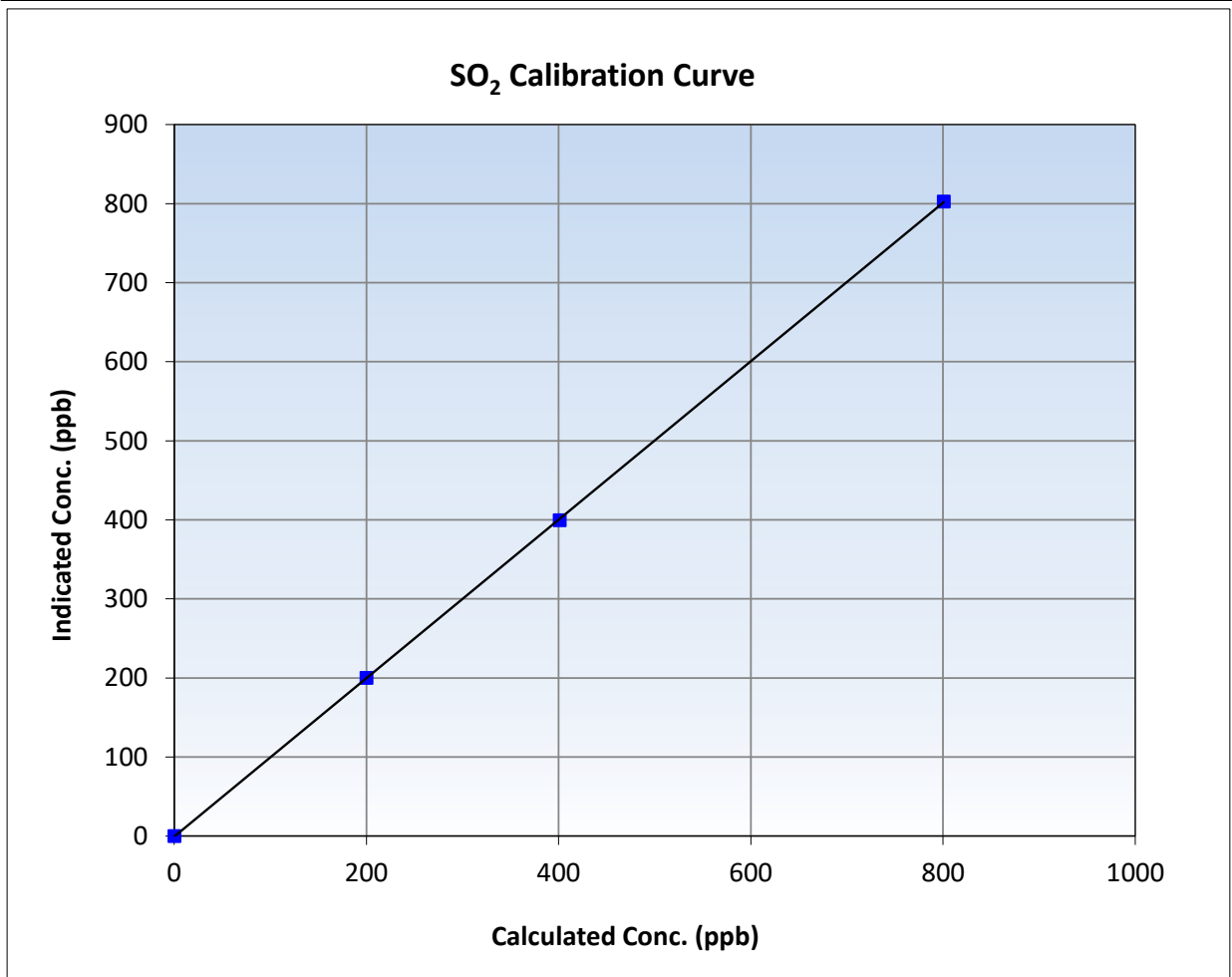
SO₂ Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 14, 2026
Station Name:	Lower Camp	Station Number:	AMS 11
Start Time (MST):	12:21	End Time (MST):	15:38
Analyzer make:	Thermo 43i	Analyzer serial #:	100841398

Calibration Data

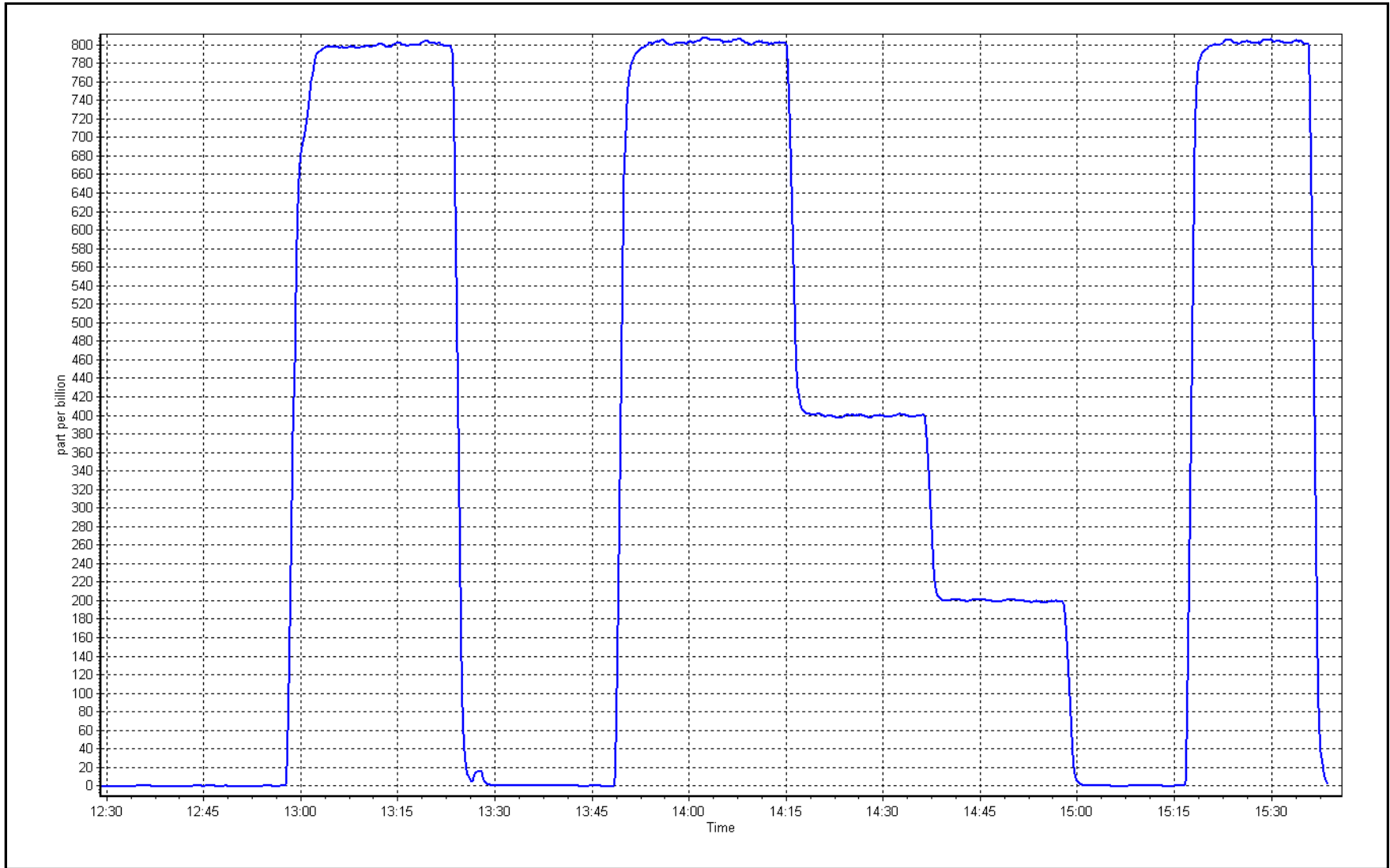
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	-0.1	----	Correlation Coefficient	0.999990	≥0.995
800.5	802.2	0.9978	Slope	1.002156	0.90 - 1.10
400.7	399.3	1.0035	Intercept	-0.712768	+/-30
199.9	199.8	1.0003			



SO2 Calibration Plot

Date: February 11, 2026

Location: Lower Camp





Wood Buffalo Environmental Association

H₂S Calibration Report

Station Information

Station Name:	Lower Camp	Station number:	AMS 11
Calibration Date:	February 25, 2026	Last Cal Date:	January 28, 2026
Start time (MST):	12:26	End time (MST):	17:20
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.83	ppm	Cal Gas Exp Date:	August 28, 2028
Cal Gas Cylinder #:	CC737863			
Removed Cal Gas Conc:	4.83	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Make/Model:	API T700		Serial Number:	3811
ZAG Make/Model:	API T701H		Serial Number:	4428

Analyzer Information

Analyzer make:	Thermo 43iQ-TL	Analyzer serial #:	1203169745
Converter make:	Global G150	Converter serial #:	2022-223
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.003709	0.994697	Backgd or Offset:	2.5	2.5
Calibration intercept:	0.288582	0.228831	Coeff or Slope:	0.808	0.816

H₂S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4923	82.8	79.9	79.0	1.013
As found Mid point	4967	41.5	40.0	39.7	1.011
As found Low point	4999	20.8	20.0	19.9	1.011
New cylinder response					
Baseline Corr As found:	78.9	Prev response:	80.48	*% change:	-2.0%
Baseline Corr 2nd AF pt:	39.6	AF Slope:	0.987541	AF Intercept:	0.129163
Baseline Corr 3rd AF pt:	19.8	AF Correlation:	0.999999	* = > +/-5% change initiates investigation	

H₂S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.1	----
High point	4923	82.8	79.9	79.6	1.004
Mid point	4967	41.5	40.0	40.2	0.996
Low point	4999	20.8	20.0	20.2	0.991
As left zero	5000	0.0	0.0	0.2	----
As left span	4923	82.8	79.9	79.9	1.000
SO ₂ Scrubber Check	4932	82.2	819.7	0.1	----
Date of last scrubber change:				Ave Corr Factor	0.997
Date of last converter efficiency test:					

Notes: Changed sample inlet filter after as founds. Ran scrubber check after calibrator zero and it passed. Adjusted span only.

Calibration Performed By: Mohammed Kashif



Wood Buffalo Environmental Association

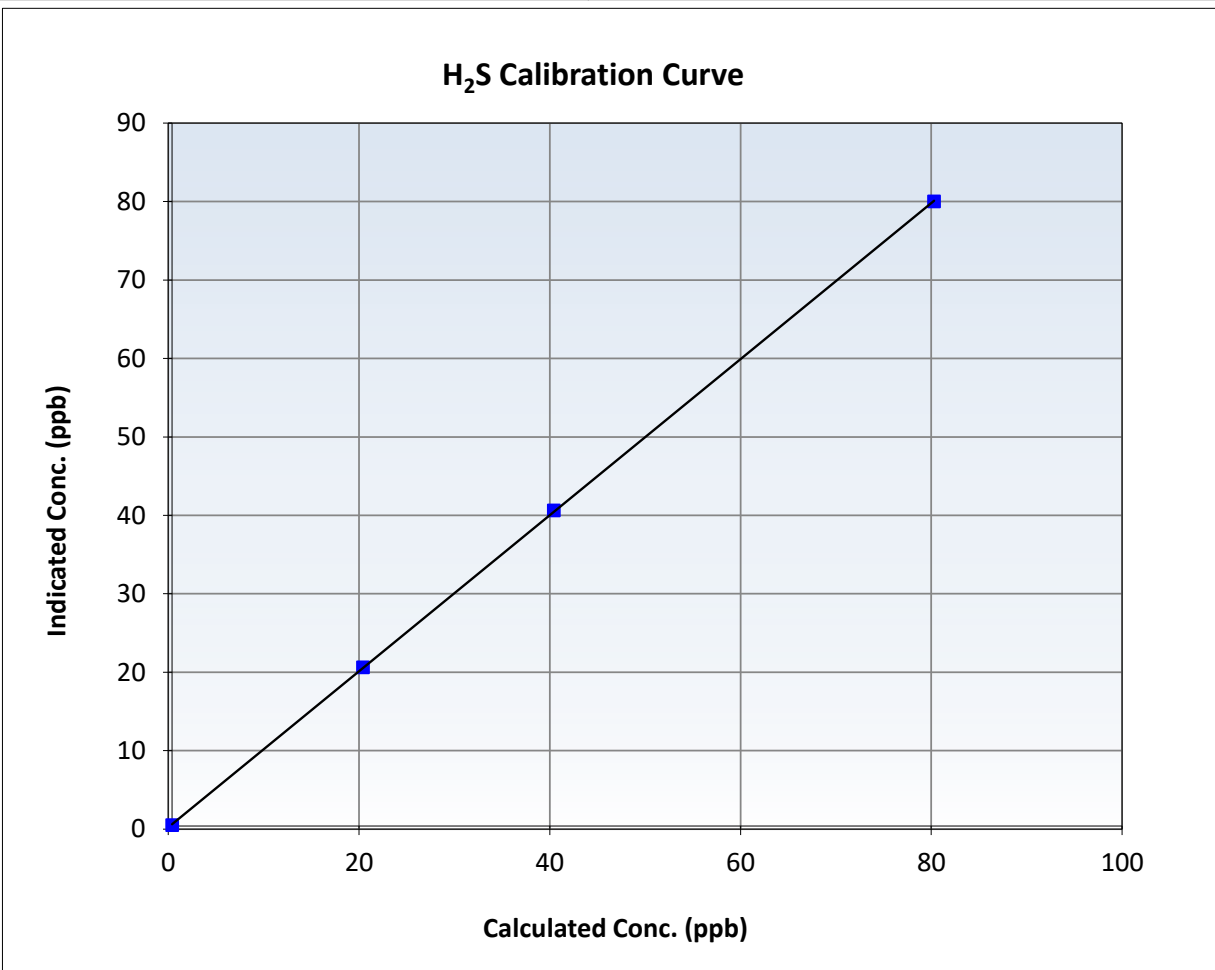
H₂S Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 28, 2026
Station Name:	Lower Camp	Station Number:	AMS 11
Start Time (MST):	12:26	End Time (MST):	17:20
Analyzer make:	Thermo 43iQ-TL	Analyzer serial #:	1203169745

Calibration Data

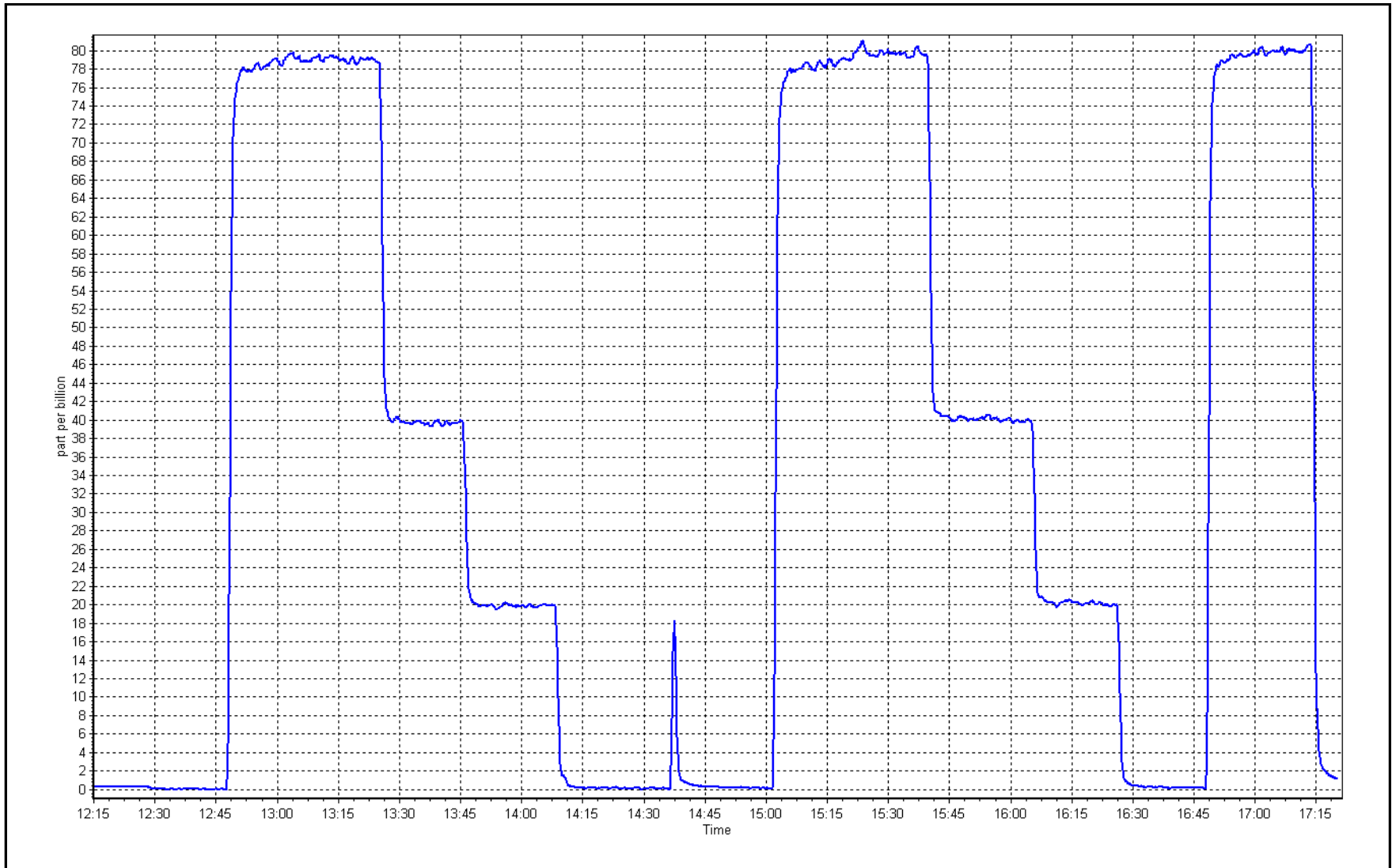
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.1	----	Correlation Coefficient	0.999984	≥0.995
79.9	79.6	1.0037	Slope	0.994697	0.90 - 1.10
40.0	40.2	0.9955	Intercept	0.228831	+/-3
20.0	20.2	0.9908			



H₂S Calibration Plot

Date: February 25, 2026

Location: Lower Camp





Wood Buffalo Environmental Association

THC / CH4 / NMHC Calibration Report

Station Information

Station Name:	Lower Camp	Station number:	AMS 11
Calibration Date:	February 11, 2026	Last Cal Date:	January 14, 2026
Start time (MST):	12:21	End time (MST):	15:38
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC741503	Cal Gas Expiry Date:	October 9, 2032
CH4 Cal Gas Conc.	504.8 ppm	CH4 Equiv Conc.	1071.9 ppm
C3H8 Cal Gas Conc.	206.2 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH4 Conc.	504.8 ppm	CH4 Equiv Conc.	1071.9 ppm
Removed C3H8 Conc.	206.2 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	3811
Zero Air Gen model:	Teledyne API T701	Serial Number:	4428

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1152430012
THC Range: 0 - 20 ppm	NMHC/CH4 Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.28E-04	2.28E-04	NMHC SP Ratio:	5.18E-05	5.18E-05
CH4 Retention time:	13.0	13.0	NMHC Peak Area:	179862	179862
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	82.1	17.60	17.60	1.000
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	17.60	Prev response	17.64	*% change	-0.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	82.1	17.60	17.67	0.996
Mid point	4959	41.1	8.81	8.81	1.000
Low point	4980	20.5	4.39	4.42	0.995
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	82.1	17.60	17.69	0.995
Average Correction Factor					0.997

Notes: Sample inlet filter changed after as founds. No adjustments made.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	82.1	9.31	9.32	0.999
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	9.32	Prev response	9.35	*% change	-0.3%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	82.1	9.31	9.34	0.997
Mid point	4959	41.1	4.66	4.68	0.997
Low point	4980	20.5	2.32	2.35	0.989
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	82.1	9.31	9.36	0.995
Average Correction Factor					0.994

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	82.1	8.29	8.28	1.002
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.28	Prev response	8.29	*% change	-0.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	82.1	8.29	8.33	0.996
Mid point	4959	41.1	4.15	4.14	1.003
Low point	4980	20.5	2.07	2.07	1.002
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	82.1	8.29	8.34	0.994
Average Correction Factor					1.000

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	1.002090	1.003830
THC Cal Offset:	-0.000843	-0.005244
CH ₄ Cal Slope:	1.001255	1.004480
CH ₄ Cal Offset:	-0.006927	-0.011124
NMHC Cal Slope:	1.003495	1.002649
NMHC Cal Offset:	0.004885	0.007081

Calibration Performed By:

Mohammed Kashif



Wood Buffalo Environmental Association

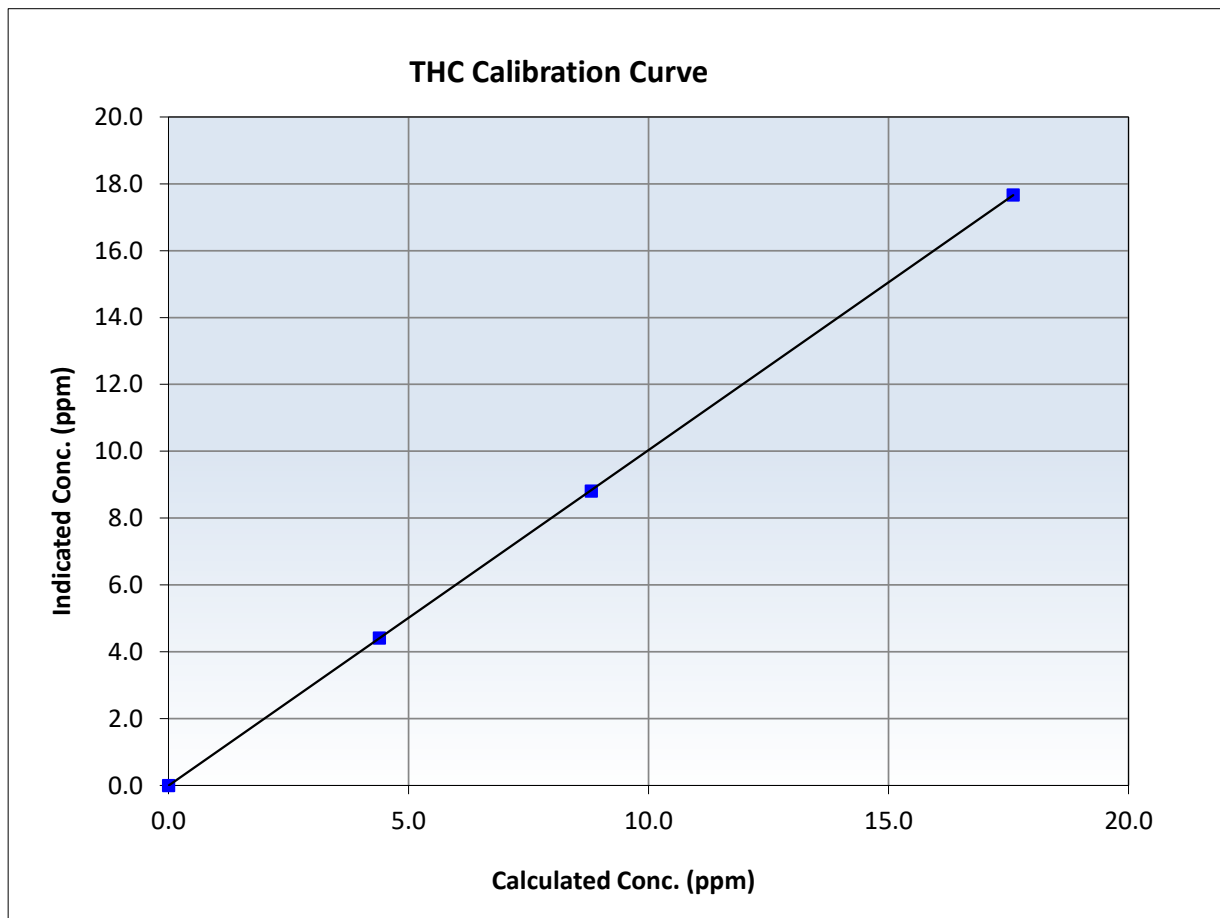
THC Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 14, 2026
Station Name:	Lower Camp	Station Number:	AMS 11
Start Time (MST):	12:21	End Time (MST):	15:38
Analyzer make:	Thermo 55i	Analyzer serial #:	1152430012

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999995	<i>≥0.995</i>
17.60	17.67	0.9959	Slope	1.003830	<i>0.90 - 1.10</i>
8.81	8.81	0.9997	Intercept	-0.005244	<i>+/-0.5</i>
4.39	4.42	0.9951			





Wood Buffalo Environmental Association

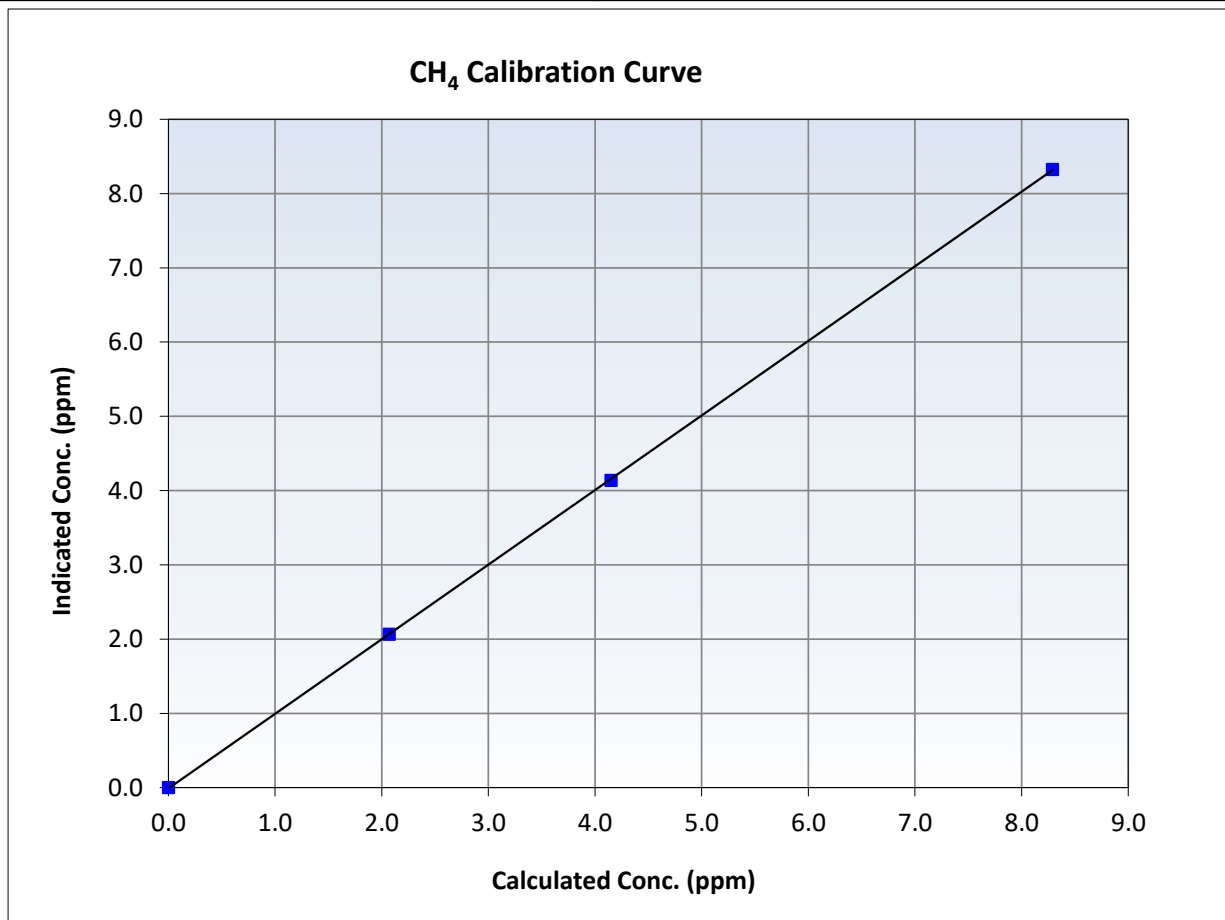
CH₄ Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 14, 2026
Station Name:	Lower Camp	Station Number:	AMS 11
Start Time (MST):	12:21	End Time (MST):	15:38
Analyzer make:	Thermo 55i	Analyzer serial #:	1152430012

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999983	<i>≥0.995</i>
8.29	8.33	0.9956	Slope	1.004480	<i>0.90 - 1.10</i>
4.15	4.14	1.0030	Intercept	-0.011124	<i>+/-0.5</i>
2.07	2.07	1.0017			





Wood Buffalo Environmental Association

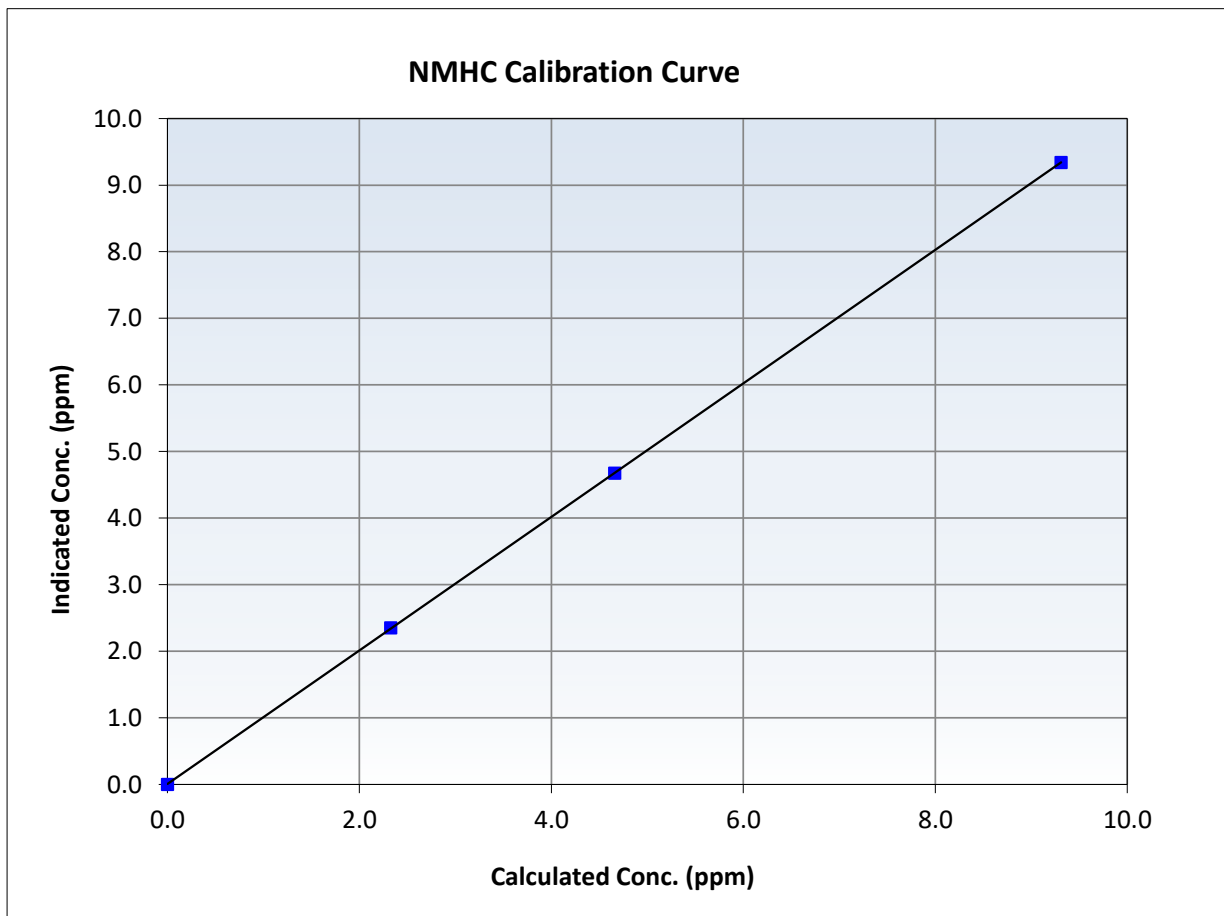
NMHC Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 14, 2026
Station Name:	Lower Camp	Station Number:	AMS 11
Start Time (MST):	12:21	End Time (MST):	15:38
Analyzer make:	Thermo 55i	Analyzer serial #:	1152430012

Calibration Data

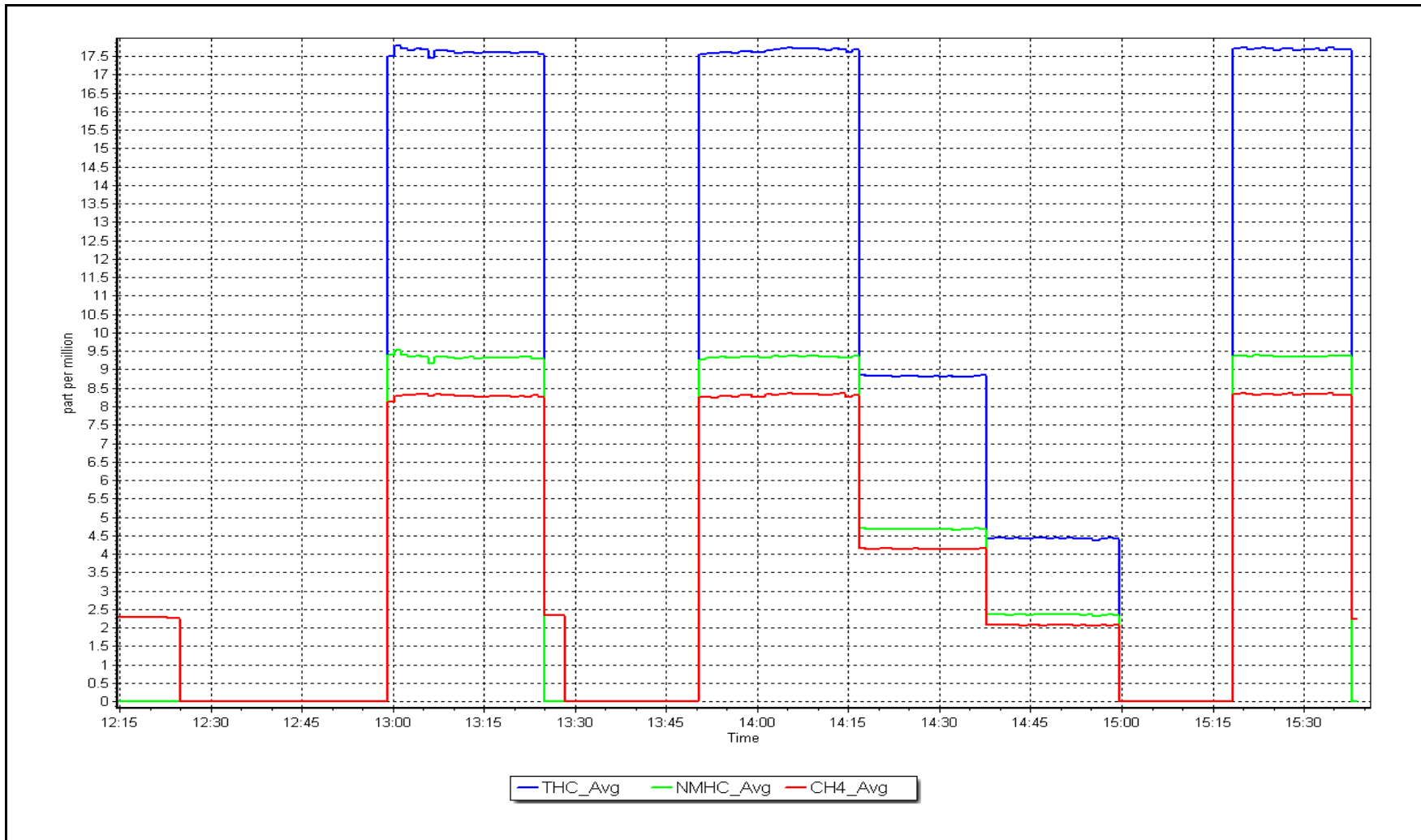
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999995	<i>≥0.995</i>
9.31	9.34	0.9967	Slope	1.002649	<i>0.90 - 1.10</i>
4.66	4.68	0.9970	Intercept	0.007081	<i>+/-0.5</i>
2.32	2.35	0.9888			



NMHC Calibration Plot

Date: February 11, 2026

Location: Lower Camp





Wood Buffalo Environmental Association

THC / CH4 / NMHC Calibration Report

Station Information

Station Name:	Lower Camp	Station number:	AMS 11
Calibration Date:	February 25, 2026	Last Cal Date:	February 11, 2026
Start time (MST):	17:20	End time (MST):	19:19
Reason:	Cylinder Change		

Calibration Standards

Gas Cert Reference:	CC741503	Cal Gas Expiry Date:	October 9, 2032
CH4 Cal Gas Conc.	504.8 ppm	CH4 Equiv Conc.	1071.9 ppm
C3H8 Cal Gas Conc.	206.2 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH4 Conc.	504.8 ppm	CH4 Equiv Conc.	1071.9 ppm
Removed C3H8 Conc.	206.2 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	3811
Zero Air Gen model:	Teledyne API T701	Serial Number:	4428

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1152430012
THC Range: 0 - 20 ppm	NMHC/CH4 Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.28E-04	2.28E-04	NMHC SP Ratio:	5.18E-05	5.18E-05
CH4 Retention time:	13.0	13.0	NMHC Peak Area:	179862	179862
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	82.1	17.60	17.39	1.012
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	17.39	Prev response	17.66	*% change	-1.6%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	82.1	17.60	17.37	1.013
Mid point					
Low point					
As left zero					
As left span					

Average Correction Factor 1.013

Notes: Changed both H2 and N2 cylinders.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	82.1	9.31	9.21	1.011
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	9.21	Prev response	9.34	*% change	-1.5%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	82.1	9.31	9.18	1.015
Mid point					
Low point					
As left zero					
As left span					

Average Correction Factor 1.015

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	82.1	8.29	8.18	1.013
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.18	Prev response	8.31	*% change	-1.6%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	82.1	8.29	8.19	1.012
Mid point					
Low point					
As left zero					
As left span					

Average Correction Factor 1.012

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	1.003830	0.986907
THC Cal Offset:	-0.005244	0.000000
CH ₄ Cal Slope:	1.004480	0.988339
CH ₄ Cal Offset:	-0.011124	0.000000
NMHC Cal Slope:	1.002649	0.985632
NMHC Cal Offset:	0.007081	0.000000

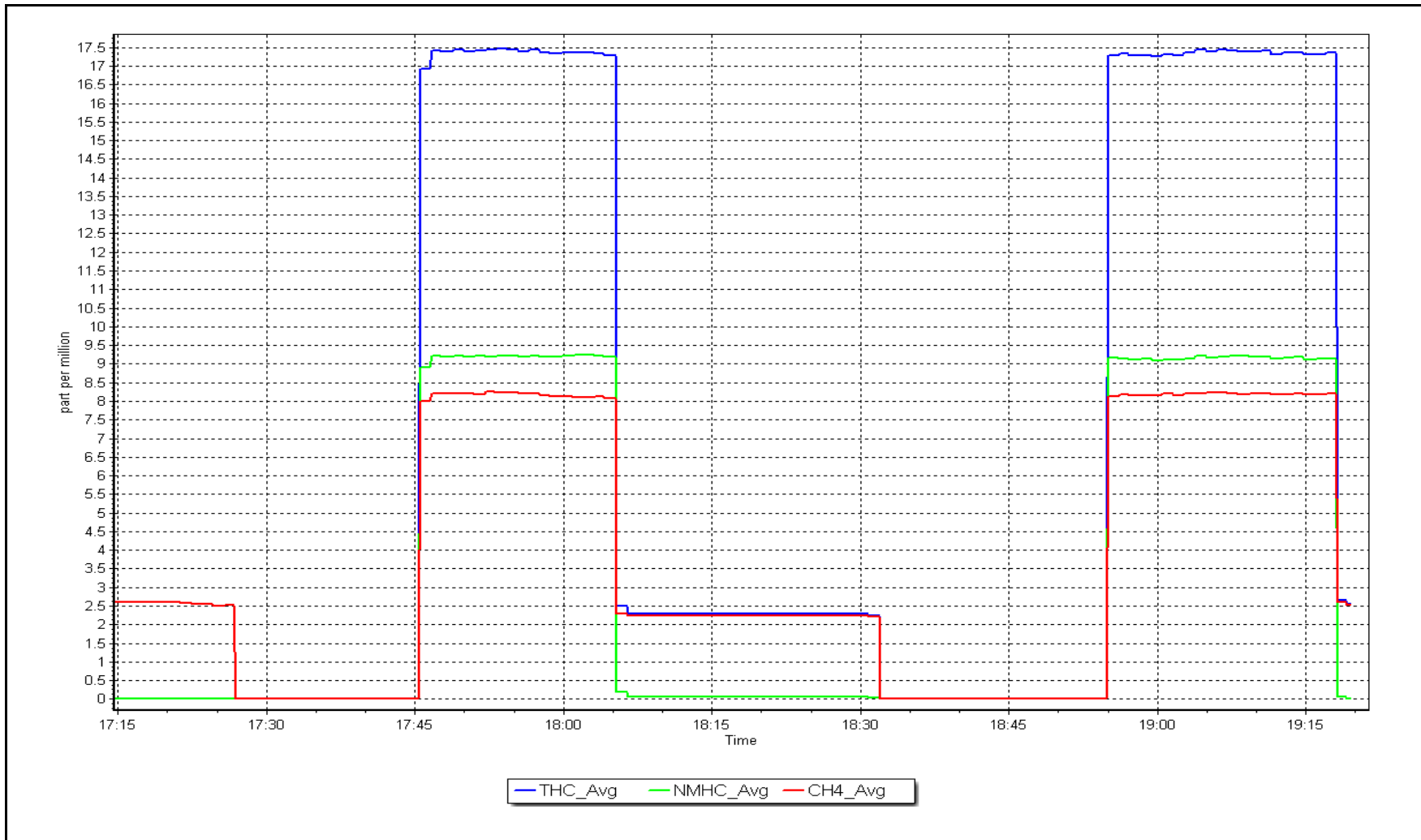
Calibration Performed By:

Mohammed Kashif

NMHC Calibration Plot

Date: February 25, 2026

Location: Lower Camp





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS13 FORT MCKAY SOUTH FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Fort McKay South	Station number: AMS 13
Calibration Date:	February 19, 2026	Last Cal Date: January 9, 2026
Start time (MST):	11:10	End time (MST): 15:00
Reason:	Routine	

Calibration Standards

Cal Gas Concentration:	50.55 ppm	Cal Gas Exp Date: December 29, 2028
Cal Gas Cylinder #:	CC260812	
Removed Cal Gas Conc:	50.55 ppm	Rem Gas Exp Date: NA
Removed Gas Cyl #:	NA	Diff between cyl:
Calibrator Model:	Teledyne API T750	Serial Number: 281
Zero Air Gen Model:	Teledyne API 751H	Serial Number: 321

Analyzer Information

Analyzer make:	Thermo 43i-TLE	Serial Number: 1331259320
Analyzer Range:	0 - 1000 ppb	

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.000014	1.003674	Backgd or Offset:	3.37	3.38
Calibration intercept:	0.005984	-0.074282	Coeff or Slope:	0.992	0.992

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.5	----
As found High point	4921	79.1	799.7	801.9	0.997
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	802.4	Previous response	799.7	*% change	0.3%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		<i>* = > +/-5% change initiates investigation</i>	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.2	----
High point	4921	79.1	799.7	802.4	0.997
Mid point	4960	39.5	399.4	401.1	0.996
Low point	4980	19.8	200.2	200.8	0.997
As left zero	5000	0.0	0.0	-0.4	----
As left span	4921	79.1	799.7	800.3	0.999
Average Correction Factor:					0.996

Notes: Changed inlet filter after as founds. No adjustments made.

Calibration Performed By: Param Kaur



Wood Buffalo Environmental Association

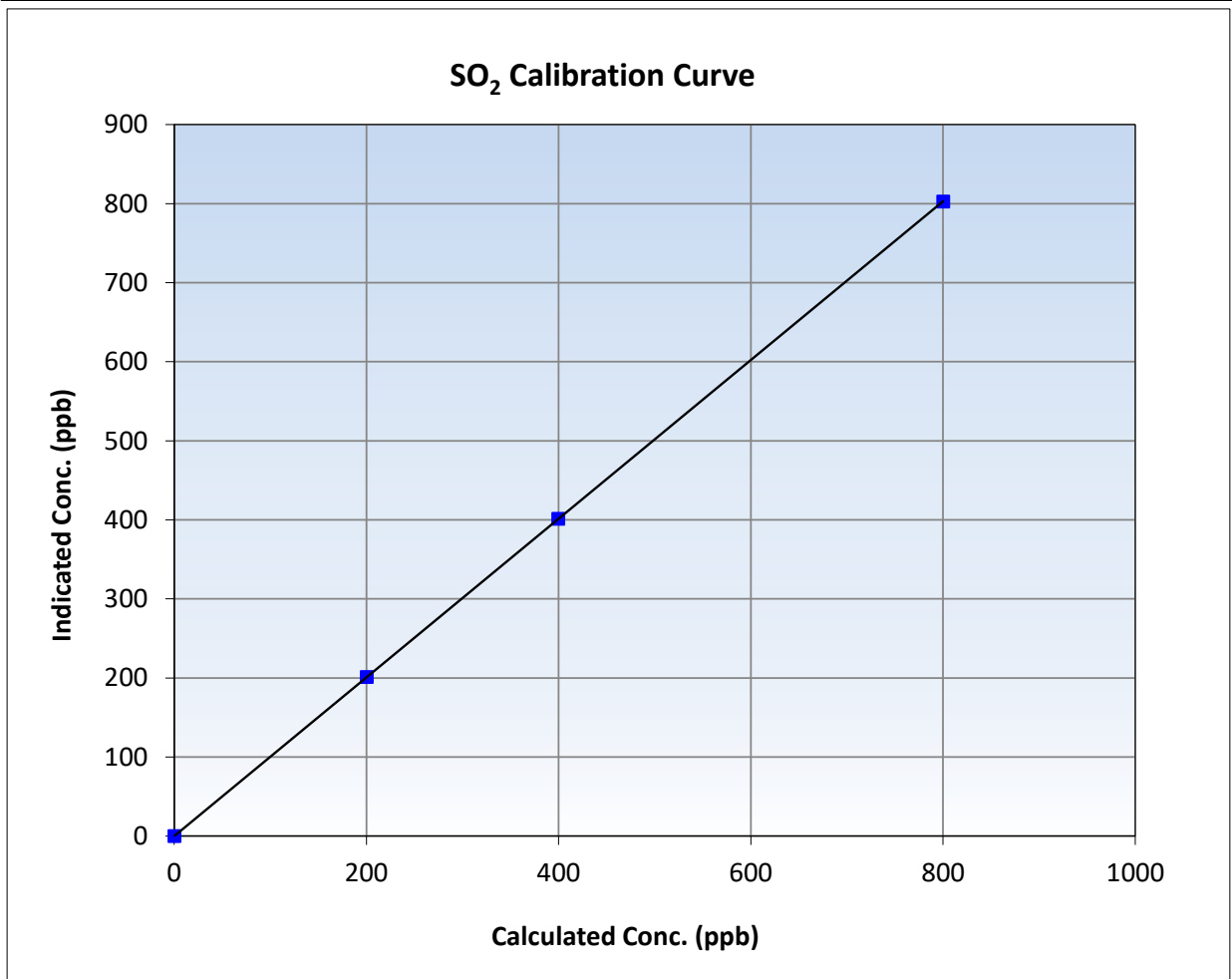
SO₂ Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 9, 2026
Station Name:	Fort McKay South	Station Number:	AMS 13
Start Time (MST):	11:10	End Time (MST):	15:00
Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1331259320

Calibration Data

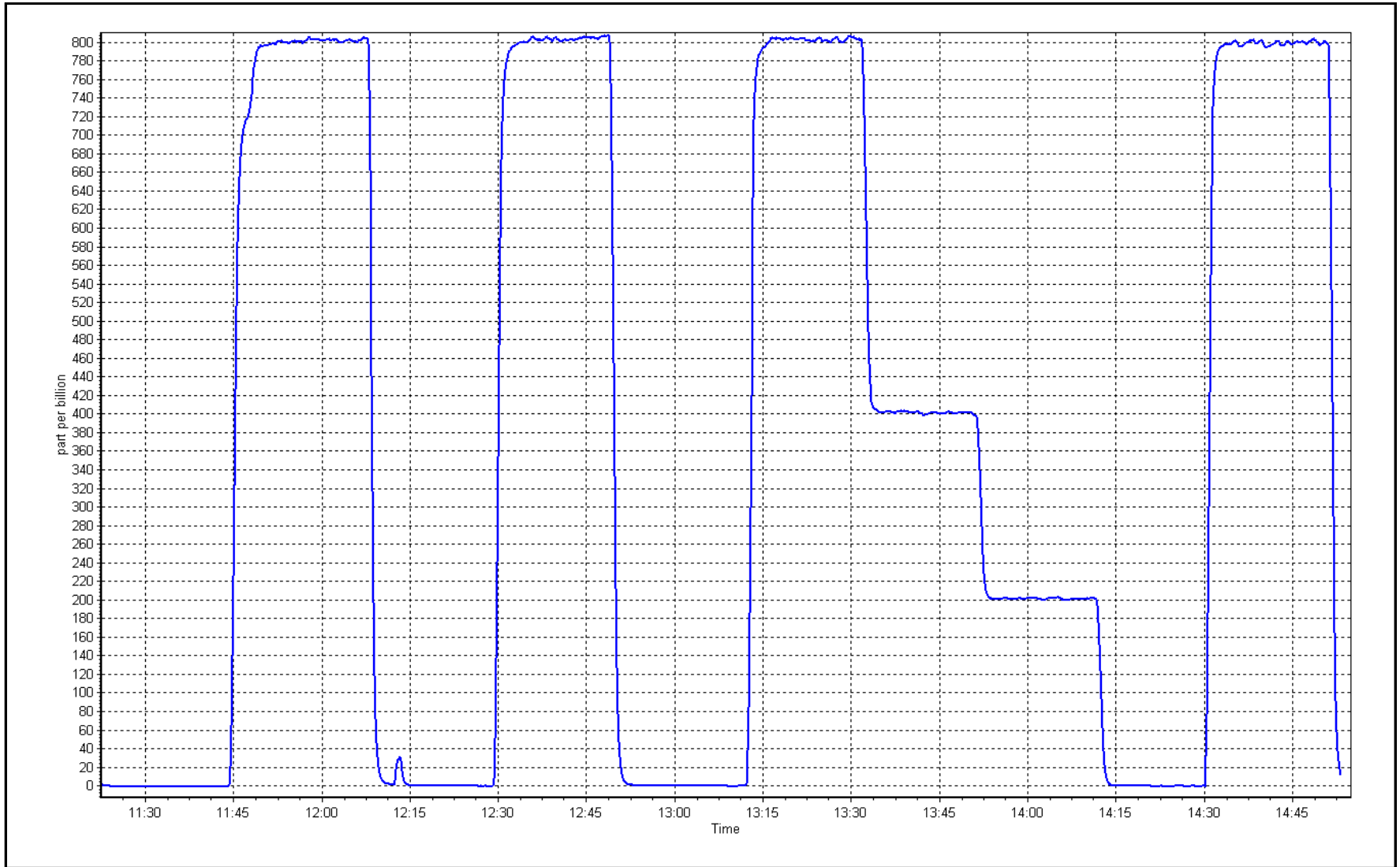
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	-0.2	----	Correlation Coefficient	1.000000	≥0.995
799.7	802.4	0.9966	Slope	1.003674	0.90 - 1.10
399.4	401.1	0.9957	Intercept	-0.074282	+/-30
200.2	200.8	0.9969			



SO2 Calibration Plot

Date: February 19, 2026

Location: Fort McKay South





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name:	Fort McKay South	Station number:	AMS 13
Calibration Date:	February 5, 2026	Last Cal Date:	January 7, 2026
Start time (MST):	11:11	End time (MST):	15:09
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.88	ppm	Cal Gas Exp Date:	September 5, 2027
Cal Gas Cylinder #:	CC500241			
Removed Cal Gas Conc:	4.88	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:	CC500241		Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700P		Serial Number:	2657
ZAG Make/Model:	Teledyne API T701		Serial Number:	1118

Analyzer Information

Analyzer make:	Thermo 43i TLE	Analyzer serial #:	1180540017
Converter make:	CDN-101	Converter serial #:	521
Analyzer Range	0 - 100 ppb	Converter Temp:	800 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.985755	0.994364	Backgd or Offset:	3.36	3.67
Calibration intercept:	0.201562	-0.198424	Coeff or Slope:	1.09	1.103

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.3	----
As found High point	4918	81.6	79.6	77.4	1.033
As found Mid point	4959	40.8	39.8	38.6	1.040
As found Low point	4980	20.4	19.9	19.1	1.059
New cylinder response					
Baseline Corr As found:	77.1	Prev response:	78.71	*% change:	-2.1%
Baseline Corr 2nd AF pt:	38.3	AF Slope:	0.969685	AF Intercept:	0.061535
Baseline Corr 3rd AF pt:	18.8	AF Correlation:	0.999956	<i>* = > +/-5% change initiates investigation</i>	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4918	81.6	79.6	79.1	1.007
Mid point	4959	40.8	39.8	39.3	1.013
Low point	4980	20.4	19.9	19.4	1.026
As left zero	5000	0.0	0.0	0.1	----
As left span	4918	81.6	79.6	79.0	1.008
SO2 Scrubber Check	4921	79.1	791.0	0.1	----
Date of last scrubber change:	7-Aug-25			Ave Corr Factor	1.015
Date of last converter efficiency test:					

Notes: Changed inlet filter after as found. SO2 scrubber check after calibrator zero and passed. Adjusted zero and span.

Calibration Performed By: Jan Castro



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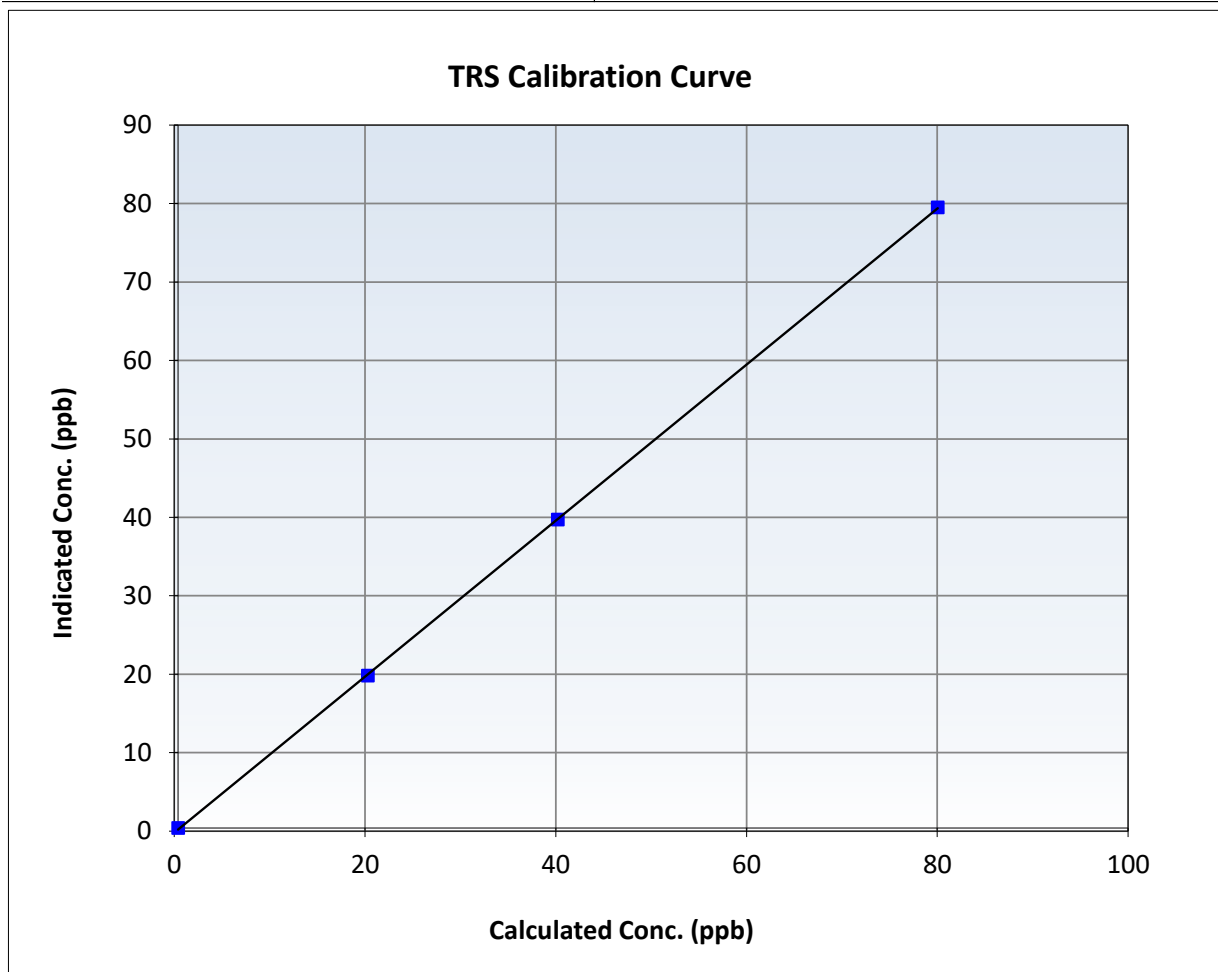
TRS Calibration Summary

Station Information

Calibration Date:	February 5, 2026	Previous Calibration:	January 7, 2026
Station Name:	Fort McKay South	Station Number:	AMS 13
Start Time (MST):	11:11	End Time (MST):	15:09
Analyzer make:	Thermo 43i TLE	Analyzer serial #:	1180540017

Calibration Data

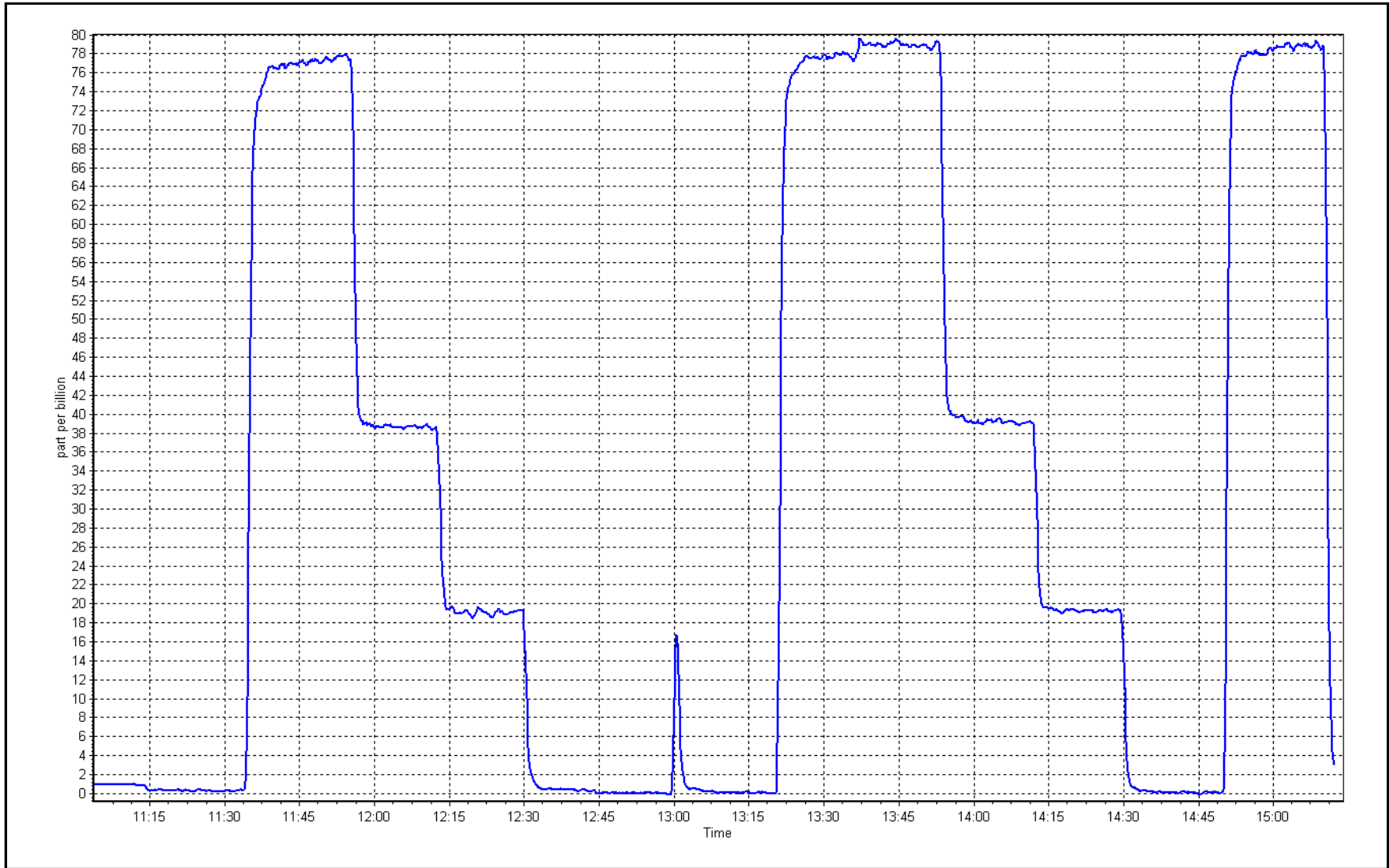
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999971	≥ 0.995
79.6	79.1	1.0069	Slope	0.994364	$0.90 - 1.10$
39.8	39.3	1.0133	Intercept	-0.198424	± 3
19.9	19.4	1.0262			



TRS Calibration Plot

Date: February 5, 2026

Location: Fort McKay South





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Fort McKay South	Station number:	AMS 13
Calibration Date:	February 19, 2026	Last Cal Date:	January 9, 2026
Start time (MST):	11:10	End time (MST):	15:00
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC260812	Cal Gas Expiry Date:	Friday, December 29, 2028
CH4 Cal Gas Conc.	503.6 ppm	CH4 Equiv Conc.	1077.5 ppm
C3H8 Cal Gas Conc.	208.7 ppm		
Removed Gas Cert:	NA	Removed Gas Expiry:	
Removed CH4 Conc.	503.6 ppm	CH4 Equiv Conc.	1077.5 ppm
Removed C3H8 Conc.	208.7 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T750	Serial Number:	281
Zero Air Gen model:	Teledyne API 751H	Serial Number:	321

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1181490018
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	3.14E-04	3.18E-04	NMHC SP Ratio:	4.60E-05	4.63E-05
CH4 Retention time:	16.40	16.60	NMHC Peak Area:	197544	195983
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.01	----
As found High point	4921	79.1	17.05	16.92	1.008
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.91	Prev response	16.98	*% change	-0.4%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.01	----
High point	4921	79.1	17.05	17.03	1.001
Mid point	4960	39.5	8.51	8.45	1.007
Low point	4980	19.8	4.27	4.17	1.022
As left zero	5000	0.0	0.00	0.01	----
As left span	4921	79.1	17.05	16.99	1.003
Average Correction Factor					1.010

Notes: Changed inlet filter after as founds. Adjusted zero and span.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	79.1	9.08	9.00	1.008
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	9.00	Prev response	9.09	*% change	-1.0%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	79.1	9.08	9.07	1.001
Mid point	4960	39.5	4.53	4.50	1.007
Low point	4980	19.8	2.27	2.23	1.019
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	79.1	9.08	9.08	1.000
Average Correction Factor					1.009

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
As found zero	5000	16	0.00	0.01	----
As found High point	4921	79.1	7.97	7.92	1.007
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.91	Prev response	7.89	*% change	0.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.01	----
High point	4921	79.1	7.97	7.96	1.001
Mid point	4960	39.5	3.98	3.95	1.007
Low point	4980	19.8	1.99	1.95	1.025
As left zero	5000	0.0	0.00	0.01	----
As left span	4921	79.1	7.97	7.91	1.008
Average Correction Factor					1.011

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.998895	0.999847
THC Cal Offset:	-0.048901	-0.039502
CH ₄ Cal Slope:	0.993385	0.999842
CH ₄ Cal Offset:	-0.023939	-0.017939
NMHC Cal Slope:	1.004195	0.999814
NMHC Cal Offset:	-0.025562	-0.021162

Calibration Performed By: Param Kaur



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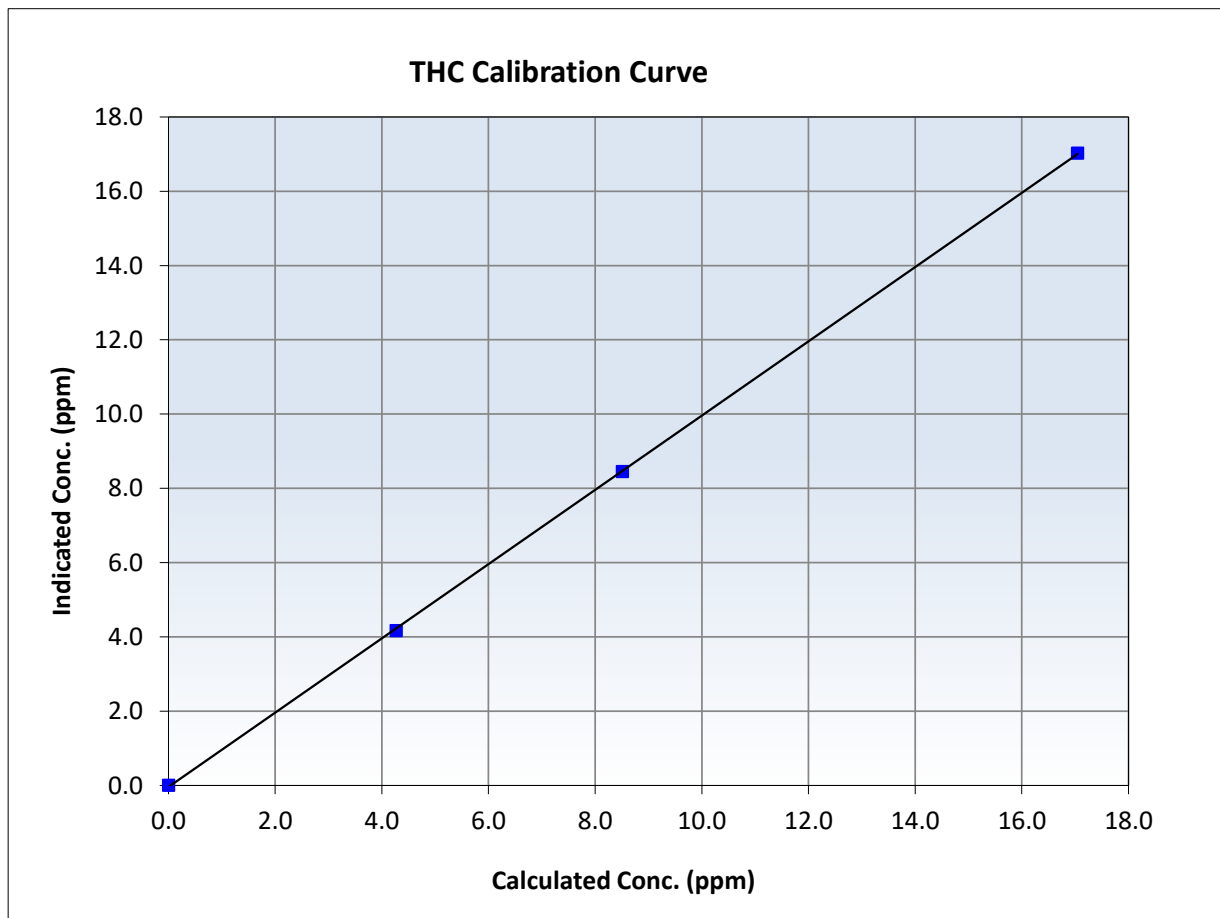
THC Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 9, 2026
Station Name:	Fort McKay South	Station Number:	AMS 13
Start Time (MST):	11:10	End Time (MST):	15:00
Analyzer make:	Thermo 55i	Analyzer serial #:	1181490018

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.01	----	Correlation Coefficient	0.999961	<i>>0.995</i>
17.05	17.03	1.0011	Slope	0.999847	<i>0.90 - 1.10</i>
8.51	8.45	1.0071	Intercept	-0.039502	<i>+/-0.5</i>
4.27	4.17	1.0223			





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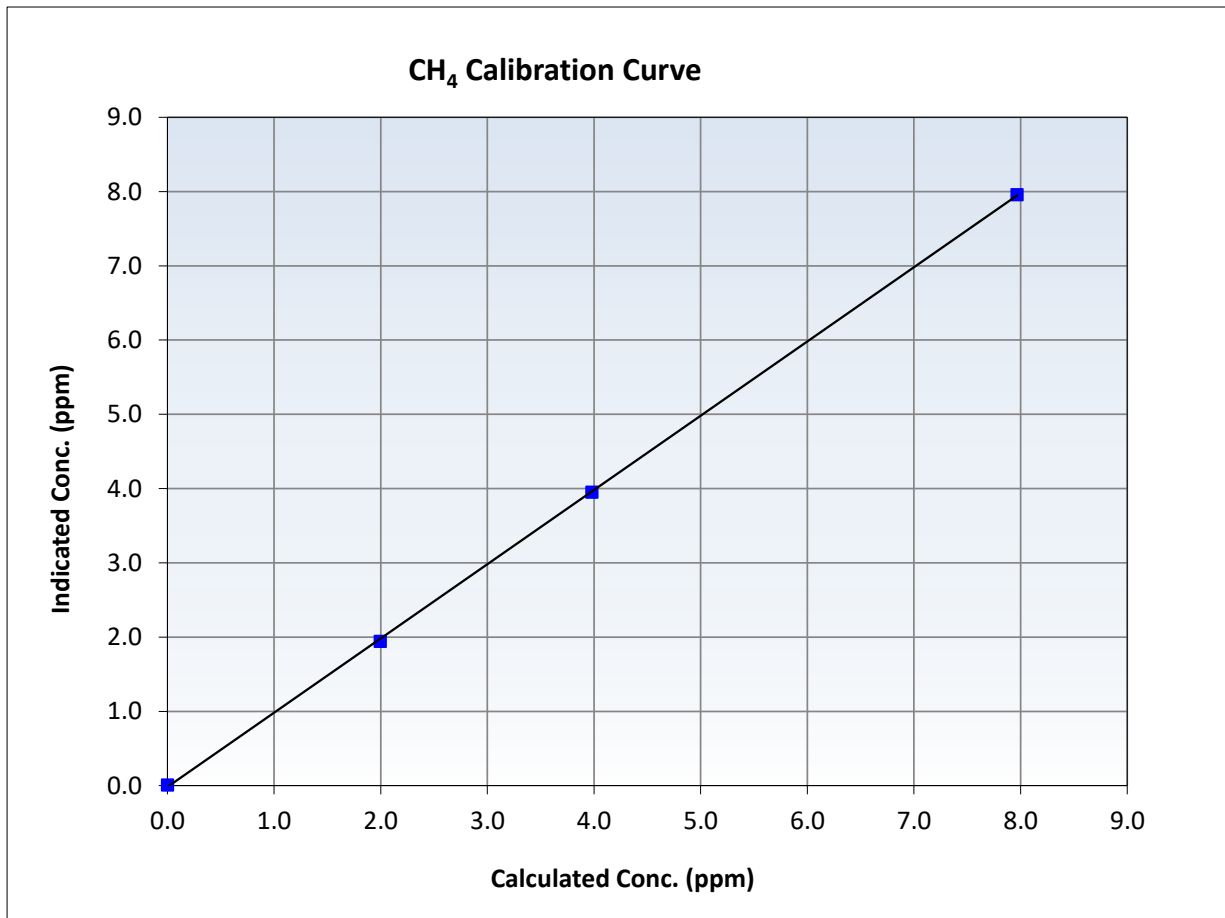
CH₄ Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 9, 2026
Station Name:	Fort McKay South	Station Number:	AMS 13
Start Time (MST):	11:10	End Time (MST):	15:00
Analyzer make:	Thermo 55i	Analyzer serial #:	1181490018

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.01	----	Correlation Coefficient	0.999943	<i>≥0.995</i>
7.97	7.96	1.0009	Slope	0.999842	<i>0.90 - 1.10</i>
3.98	3.95	1.0070	Intercept	-0.017939	<i>+/-0.5</i>
1.99	1.95	1.0254			





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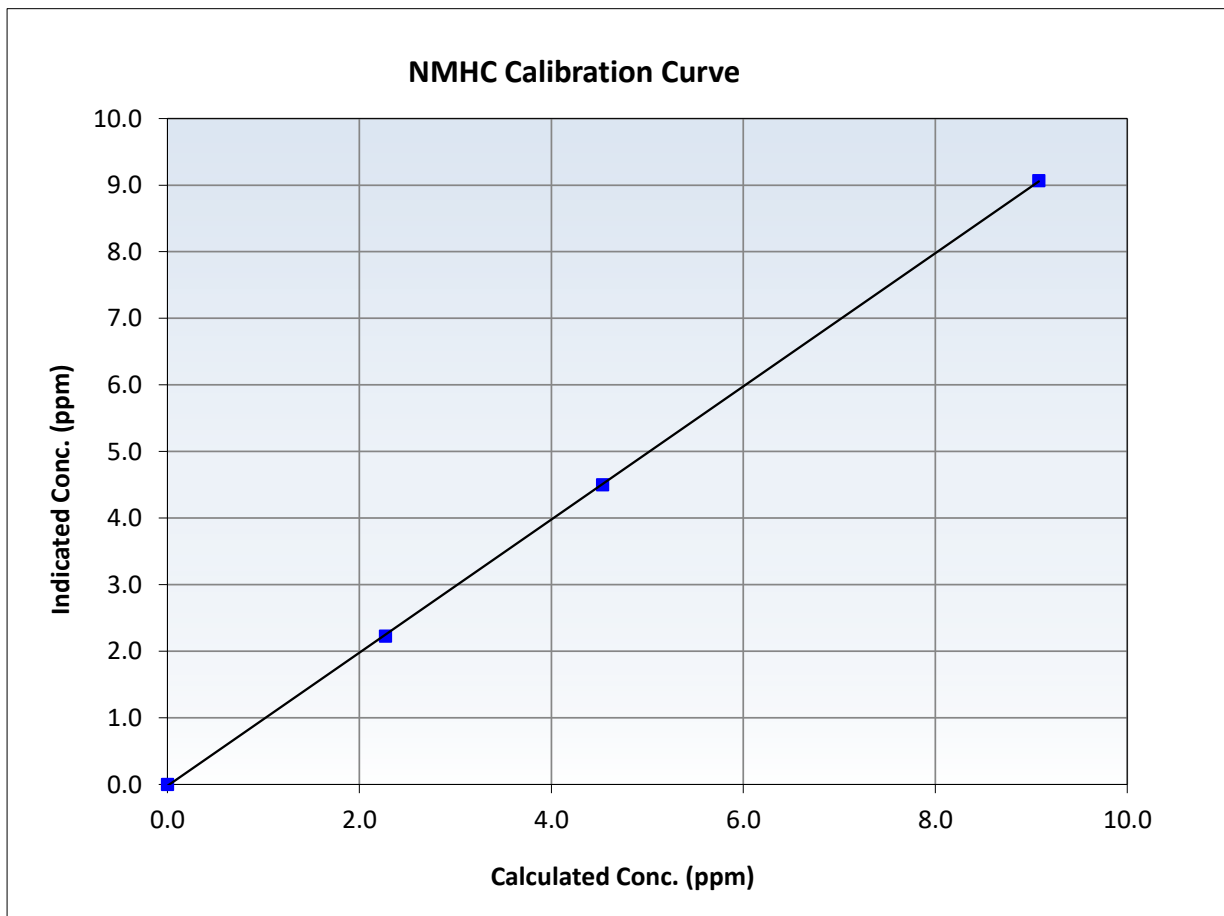
NMHC Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 9, 2026
Station Name:	Fort McKay South	Station Number:	AMS 13
Start Time (MST):	11:10	End Time (MST):	15:00
Analyzer make:	Thermo 55i	Analyzer serial #:	1181490018

Calibration Data

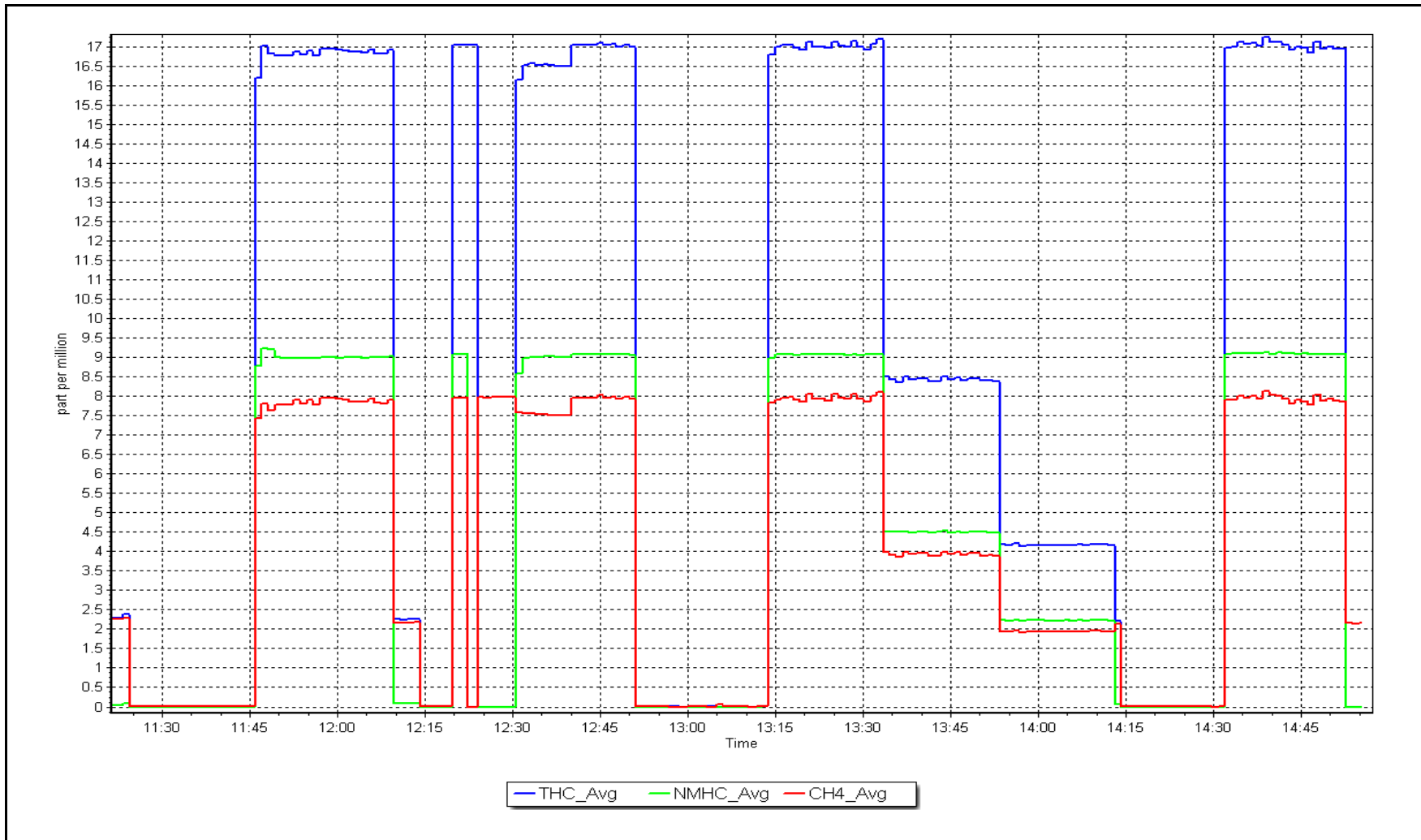
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999975	<i>≥0.995</i>
9.08	9.07	1.0014	Slope	0.999814	<i>0.90 - 1.10</i>
4.53	4.50	1.0072	Intercept	-0.021162	<i>+/-0.5</i>
2.27	2.23	1.0192			



NMHC Calibration Plot

Date: February 19, 2026

Location: Fort McKay South





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Fort McKay South
 Station number: AMS 13
 Calibration Date: February 23, 2026
 Last Cal Date: January 13, 2026
 Start time (MST): 12:23
 End time (MST): 17:00
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: T2UP1RP
 NOX Cal Gas Conc: 48.25 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 48.25 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne APIT701
 Cal Gas Expiry Date: November 17, 2026
 NO Cal Gas Conc: 47.88 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 47.88 ppm
 NO gas Diff:
 Serial Number: 2657
 Serial Number: 1118

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	----	----
AF High point	4917	83.5	805.7	799.5	6.2	789.3	777.2	12.1	1.0208	1.0287
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 803.4 ppb		NO = 798.0 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -1.8%	
Baseline Corr 1st pt	NO _x = 789.3 ppb		NO = 777.2 ppb			<u>As Found Statistics</u>		*Percent Change	NO = -2.7%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42iQ
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 12300522720

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.999617	0.998156
NO _x Cal Offset:	-2.032442	-2.292088
NO Cal Slope:	1.002008	1.003137
NO Cal Offset:	-3.090649	-3.510762
NO ₂ Cal Slope:	0.966069	0.982569
NO ₂ Cal Offset:	1.982802	0.958786

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.095	1.131	NO bkgnd or offset:	2.9	3.1
NOX coeff or slope:	0.997	0.991	NOX bkgnd or offset:	3.1	3.5
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	162.2	162.2

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	-0.1	0.1	-0.3	----	----
High point	4917	83.5	805.7	799.5	6.2	803.3	800.6	2.7	1.0030	0.9986
Mid point	4958	41.8	403.4	400.3	3.1	398.4	395.4	3.1	1.0125	1.0124
Low point	4979	20.9	201.7	200.1	1.5	197.4	194.2	3.1	1.0217	1.0306
As left zero	5000	0.0	0.0	0.0	0.0	-0.2	0.1	-0.3	----	----
As left span	4917	83.5	805.7	409.3	396.4	794.3	409.3	385.0	1.0143	1.0000
Average Correction Factor									1.0124	1.0139

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	-0.3	----	----
High GPT point	797.1	409.6	393.7	386.5	1.0186	98.2%
Mid GPT point	797.1	609.3	194.0	194.2	0.9989	100.1%
Low GPT point	797.1	704.2	99.1	98.2	1.0089	99.1%
Average Correction Factor					1.0088	99.1%

Notes:

Adjusted zero and span.

Calibration Performed By:

Param Kaur



Wood Buffalo Environmental Association

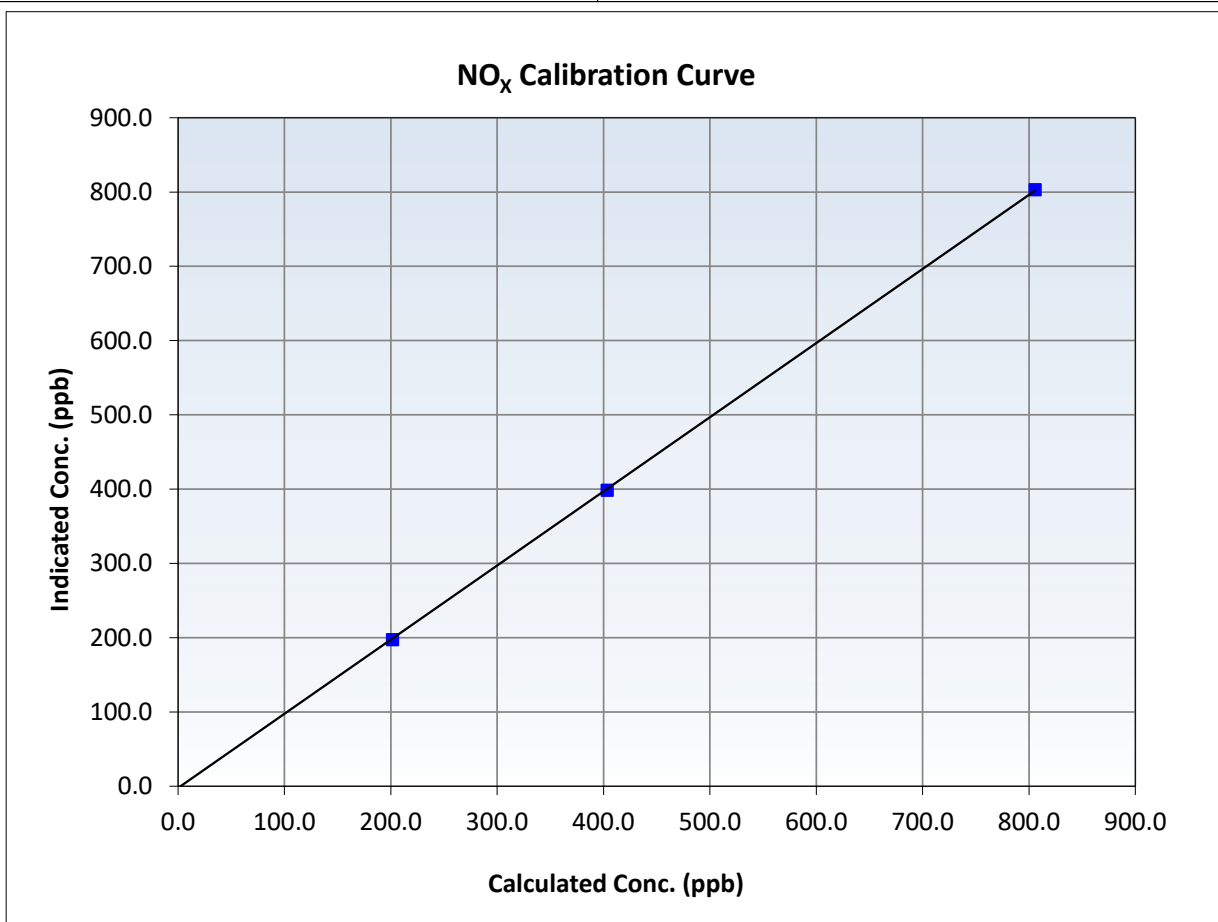
NO_x Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 13, 2026
Station Name:	Fort McKay South	Station Number:	AMS 13
Start Time (MST):	12:23	End Time (MST):	17:00
Analyzer make:	Thermo 42iQ	Analyzer serial #:	12300522720
			14:18

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.1	----	Correlation Coefficient	0.999963	<i>≥0.995</i>
805.7	803.3	1.0030	Slope	0.998156	<i>0.90 - 1.10</i>
403.4	398.4	1.0125	Intercept	-2.292088	<i>+/-20</i>
201.7	197.4	1.0217			





Wood Buffalo Environmental Association

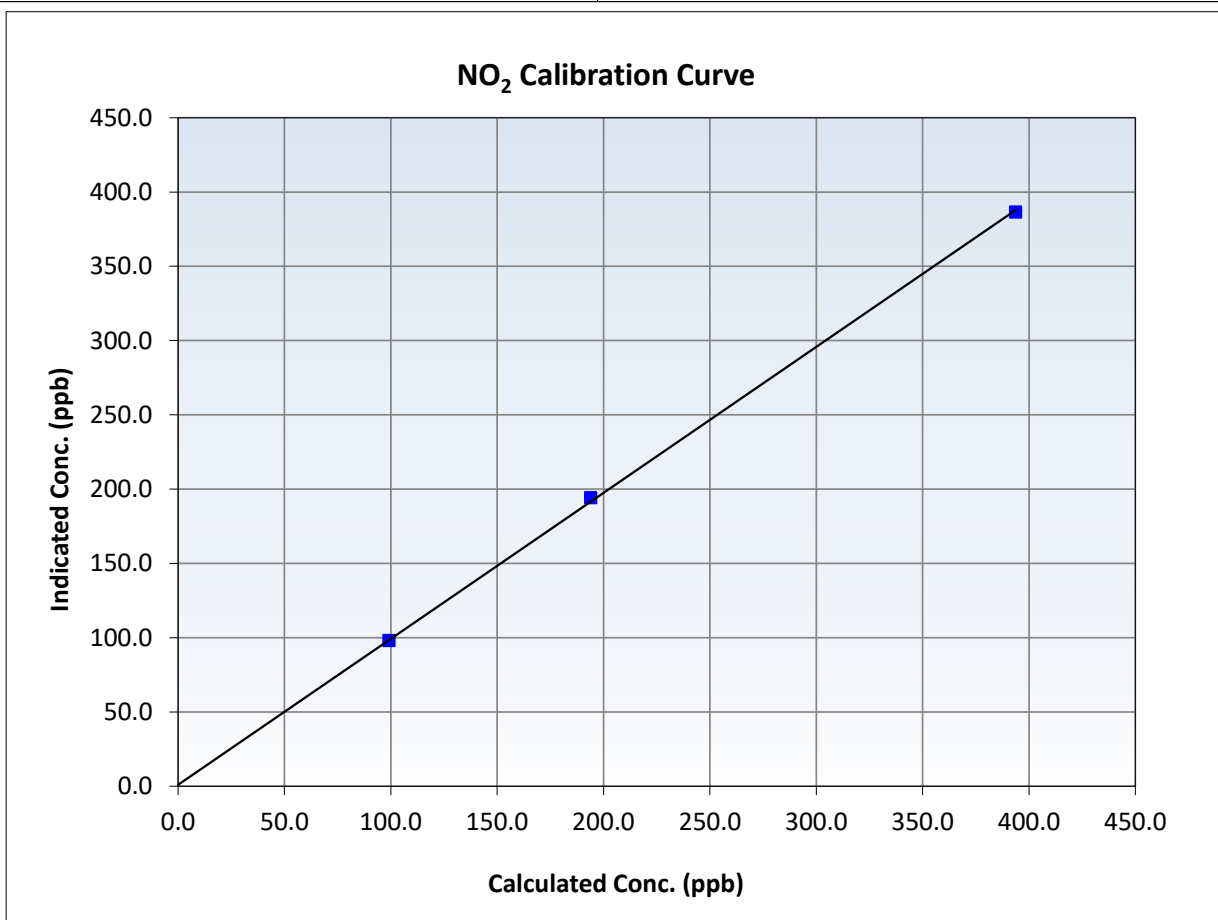
NO₂ Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 13, 2026
Station Name:	Fort McKay South	Station Number:	AMS 13
Start Time (MST):	12:23	End Time (MST):	17:00
Analyzer make:	Thermo 42iQ	Analyzer serial #:	12300522720
			14:18

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.3	----	Correlation Coefficient	0.999875	<i>≥0.995</i>
393.7	386.5	1.0186	Slope	0.982569	<i>0.90 - 1.10</i>
194.0	194.2	0.9989	Intercept	0.958786	<i>+/-20</i>
99.1	98.2	1.0089			





Wood Buffalo Environmental Association

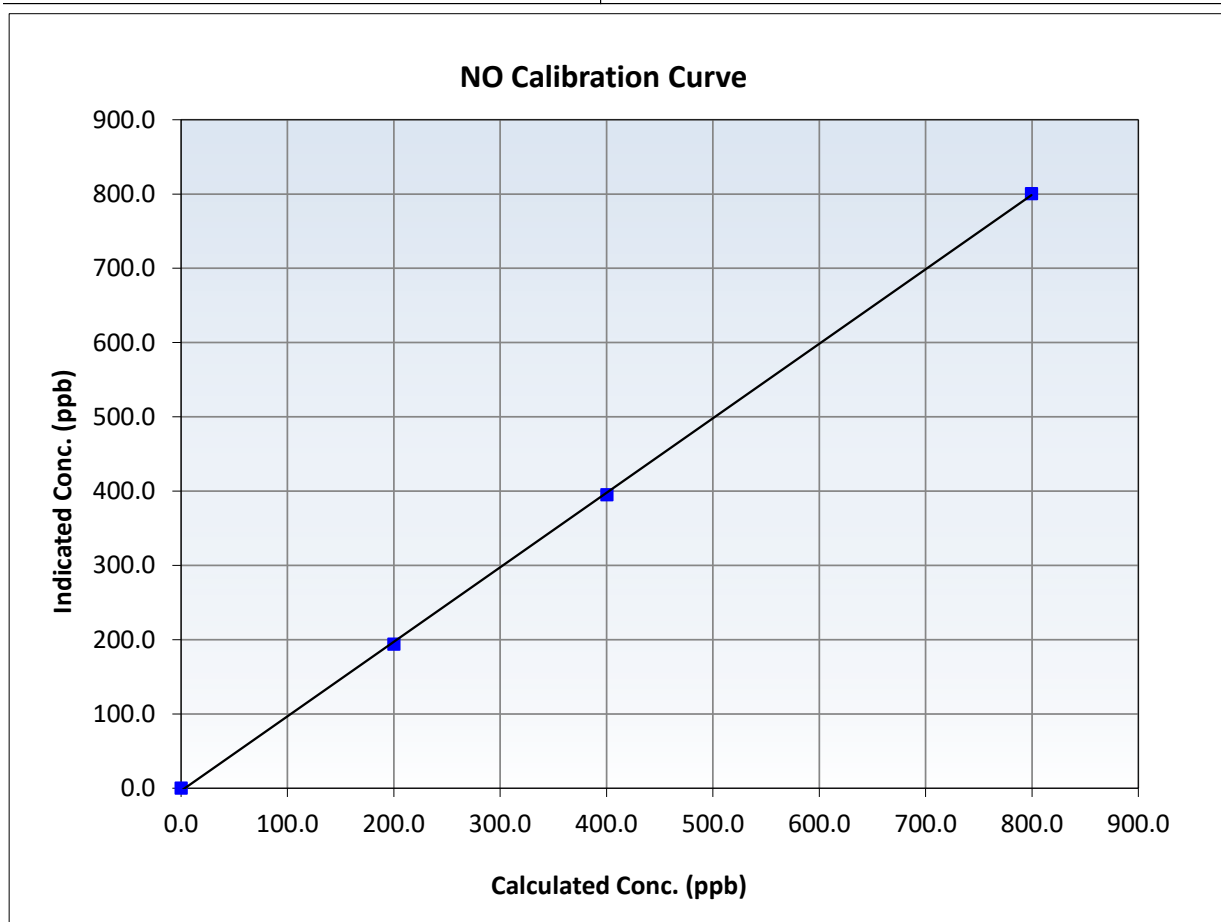
NO Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 13, 2026
Station Name:	Fort McKay South	Station Number:	AMS 13
Start Time (MST):	12:23	End Time (MST):	17:00
Analyzer make:	Thermo 42iQ	Analyzer serial #:	12300522720
			14:18

Calibration Data

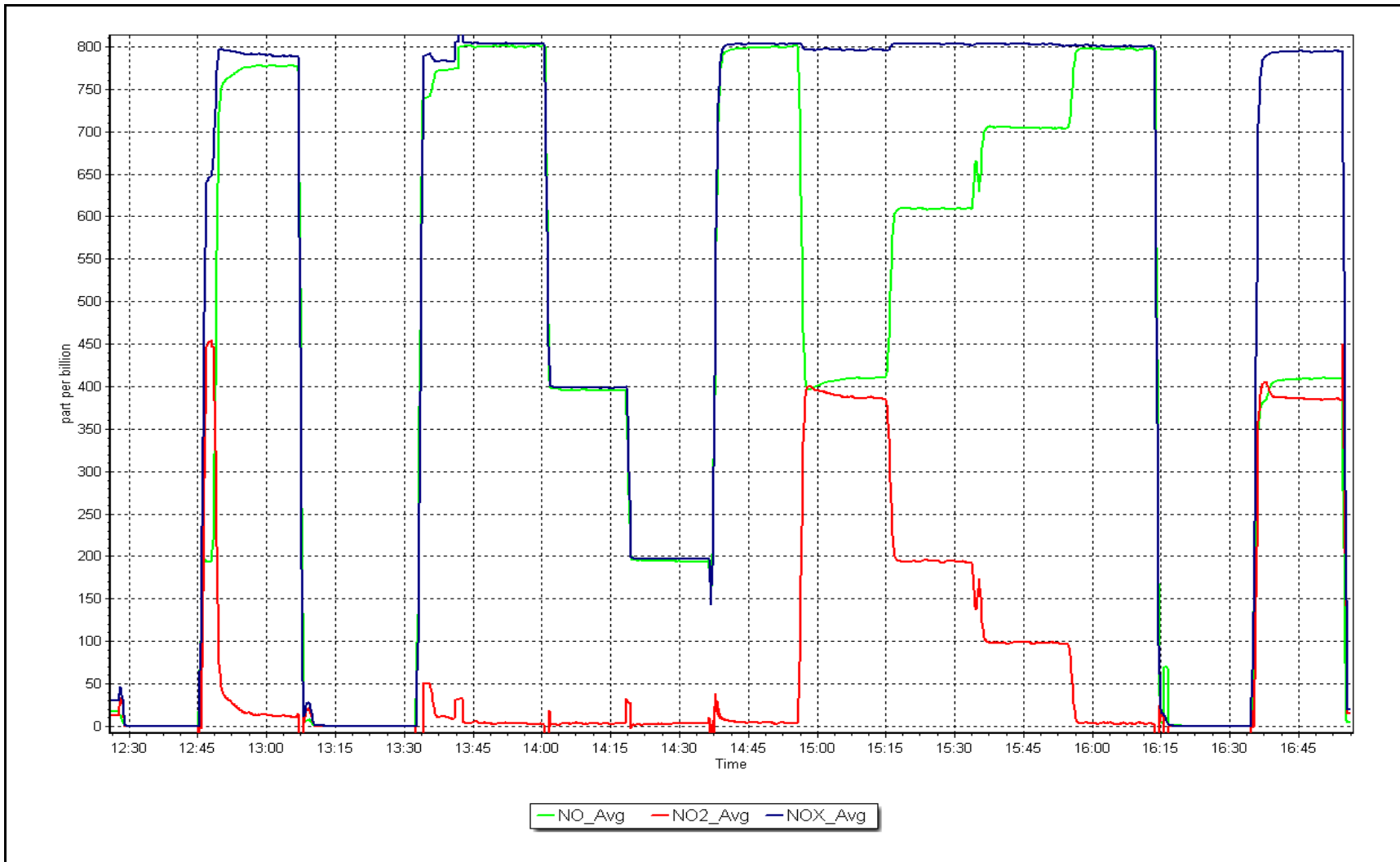
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999904	<i>≥0.995</i>
799.5	800.6	0.9986	Slope	1.003137	<i>0.90 - 1.10</i>
400.3	395.4	1.0124	Intercept	-3.510762	<i>+/-20</i>
200.1	194.2	1.0306			



NO_x Calibration Plot

Date: February 23, 2026

Location: Fort McKay South





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Fort McKay South	Station number:	AMS 13
Calibration Date:	February 9, 2026	Last Cal Date:	January 5, 2026
Start time (MST):	10:44	End time (MST):	14:06
Reason:	Routine		

Calibration Standards

O3 generation mode:	Photometer	Serial Number:	281
Calibrator Make/Model:	Teledyne API T700	Serial Number:	321
ZAG Make/Model:	Teledyne API 701		

Analyzer Information

Analyzer make:	Teledyne API T400	Analyzer serial #:	7413
Analyzer Range	0 - 500 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.002343	1.000743	Backgd or Offset:	-2.8	-2.8
Calibration intercept:	2.240000	2.120000	Coeff or Slope:	1.025	1.025

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	800.0	0.0	0.5	----
As found High point	5000	984.4	400.0	404.1	0.991
As found Mid point					
As found Low point					
Baseline Corr As found:	403.6	Previous response	403.2	*% change	0.1%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	800.0	0.0	0.4	----
High point	5000	984.4	400.0	401.5	0.996
Mid point	5000	799.8	200.0	203.3	0.984
Low point	5000	682.8	100.0	103.8	0.963
As left zero	5000	800.0	0.0	1.2	----
As left span	5000	984.4	400.0	405.7	0.986
Average Correction Factor					0.981

Notes: Sample inlet filter was changed after as founds. No adjustments.

Calibration Performed By: Jason Brooks



Wood Buffalo Environmental Association

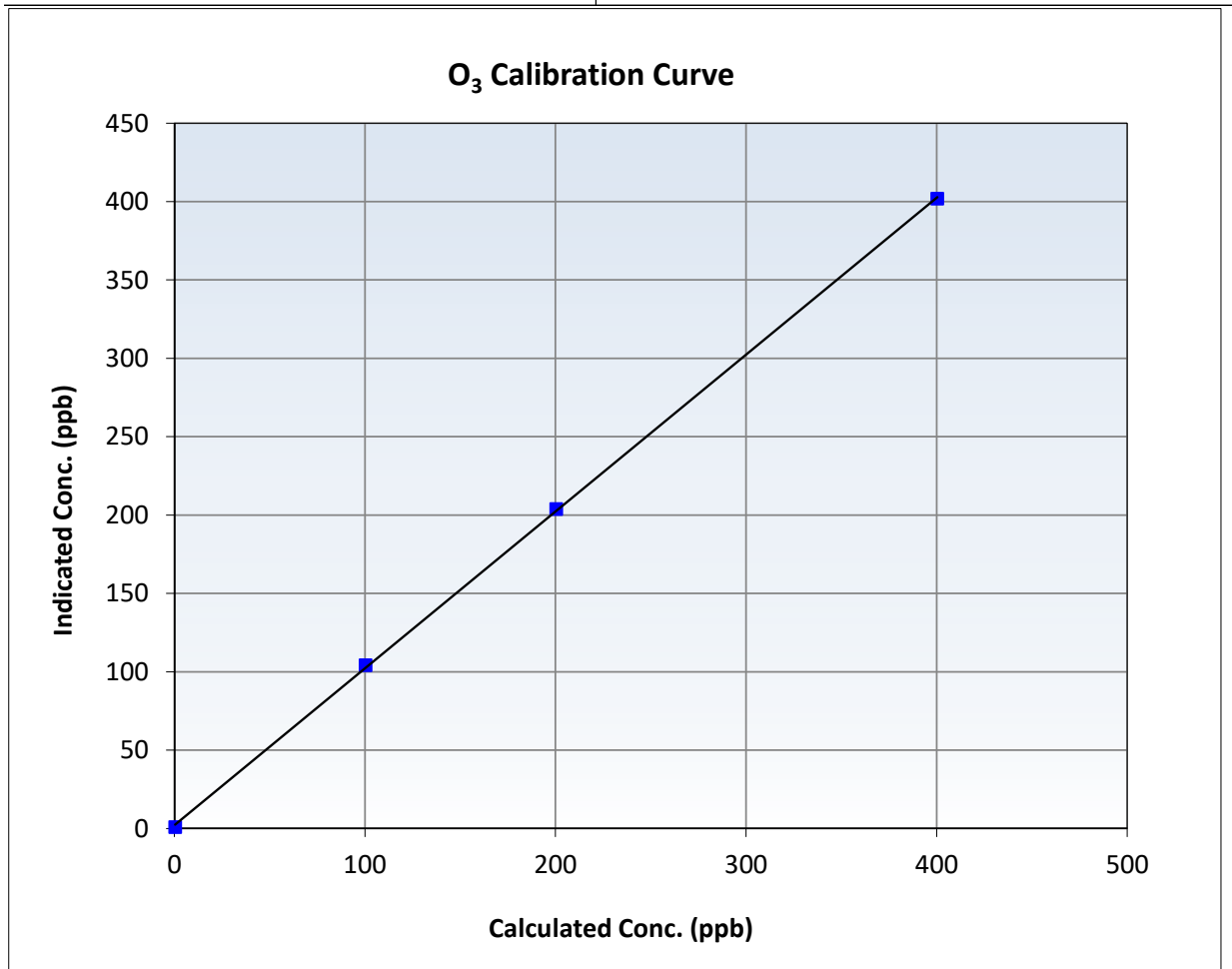
O₃ Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 5, 2026
Station Name:	Fort McKay South	Station Number:	AMS 13
Start Time (MST):	10:44	End Time (MST):	14:06
Analyzer make:	Teledyne API T400	Analyzer serial #:	7413

Calibration Data

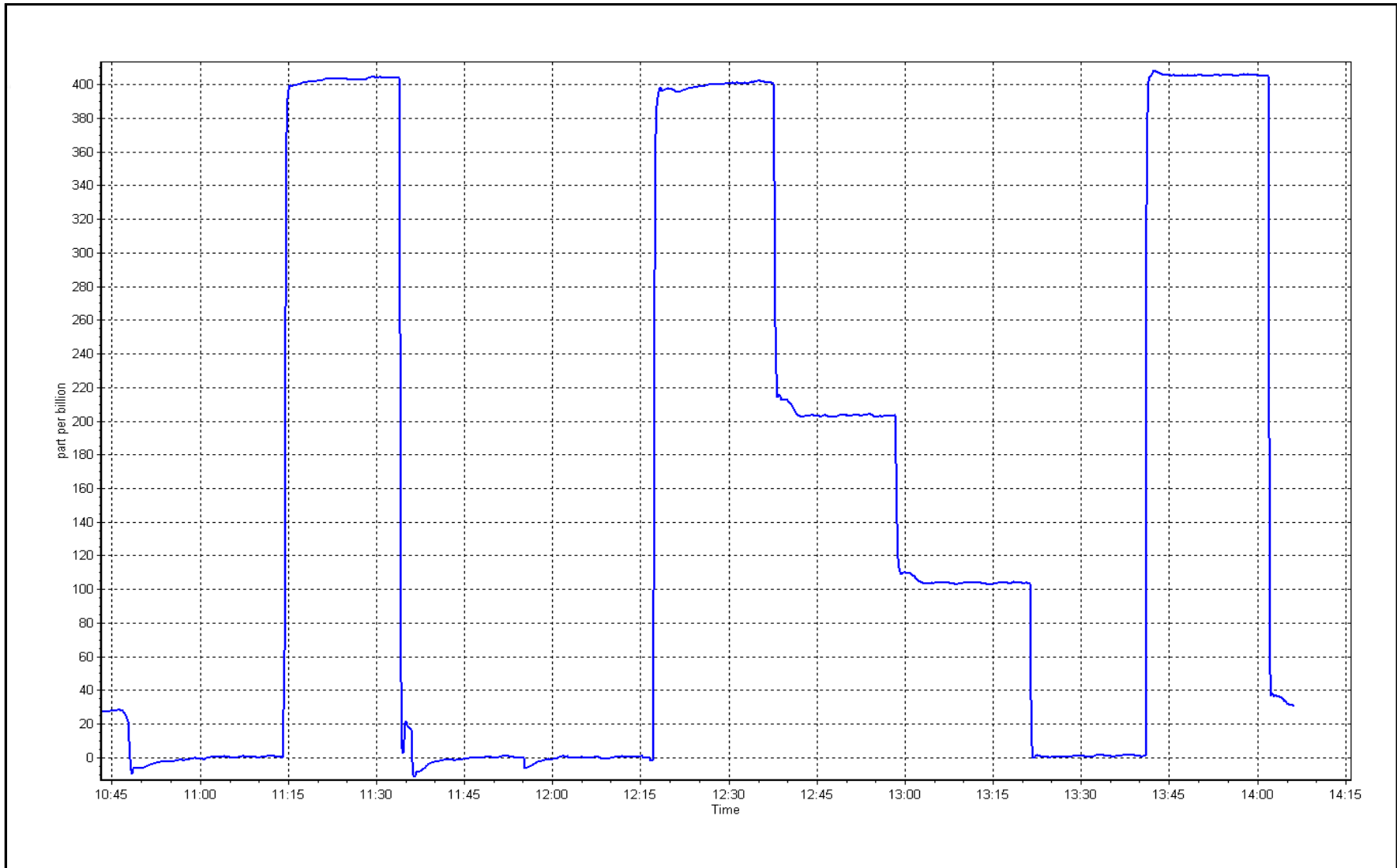
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.4	----	Correlation Coefficient	0.999915	≥0.995
400.0	401.5	0.9963	Slope	1.000743	0.90 - 1.10
200.0	203.3	0.9838	Intercept	2.120000	+/- 5
100.0	103.8	0.9634			



O₃ Calibration Plot

Date: February 9, 2026

Location: Fort McKay South





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Fort McKay South Station number: AMS 13
 Calibration Date: February 25, 2026 Last Cal Date: January 26, 2026
 Start time (MST): 11:09 End time (MST): 12:00

Analyzer Make: Teledyne API T640 S/N: 1335
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25 S/N: 388755
 Temp/RH standard: Alicat FP-25 S/N: 388755

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-10.60	-11.66	-10.60	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	719.50	721.46	719.50	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	4.99	8.50	5.01	<input checked="" type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	46	----	47	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	7.1	PM w/ HEPA: _____	0.0	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: 10.9 Expiry Date: June 10, 2024
 Lot No.: 100128-050-042

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test				<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: December 19, 2025
 Date Disposable Filter Changed: December 16, 2025

Post- maintenance Zero Verification: PM w/ HEPA: _____ <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: June 2, 2025
 Date RH/T Sensor Cleaned: June 2, 2025

Notes: Verified temperature, pressure and flow. Flow adjusted. Leak check passed.

Calibration by: Param Kaur



Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Fort McKay South Station number: AMS 13
 Calibration Date: February 26, 2026 Last Cal Date: February 25, 2026
 Start time (MST): 15:45 End time (MST): 15:55

Analyzer Make: Teledyne API T640 S/N: 1335
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25 S/N: 388748
 Temp/RH standard: Alicat FP-25 S/N: 388748

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-16.80	-17.60	-16.80	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	725.60	728.03	725.60	<input type="checkbox"/>	+/- 10 mmHg
	4.98	3.07	5.04	<input checked="" type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	30	----	45	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	3.8	PM w/ HEPA: _____	0.0	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: 10.9 Expiry Date: June 10, 2024
 Lot No.: 100128-050-042

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test				<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: December 19, 2025
 Date Disposable Filter Changed: December 16, 2025

Post- maintenance Zero Verification: PM w/ HEPA: _____ <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: June 2, 2025
 Date RH/T Sensor Cleaned: June 2, 2025

Notes: Verified temperature, pressure and flow. Flow adjusted. Leak check passed.

Calibration by: Jason Brooks, Aswin Sasi Kumar



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

**AMS14
ANZAC
FEBRUARY 2026**

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Anzac	Station number:	AMS 14
Calibration Date:	February 2, 2026	Last Cal Date:	January 5, 2026
Start time (MST):	11:00	End time (MST):	14:30
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.32	ppm	Cal Gas Exp Date:	October 9, 2023
Cal Gas Cylinder #:	CC462030			
Removed Cal Gas Conc:	50.32	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Model:	API T700		Serial Number:	3060
Zero Air Gen Model:	API T701H		Serial Number:	357

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	0710321322
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.997719	0.999176	Backgd or Offset:	26.3	26.3
Calibration intercept:	-2.128235	-1.888613	Coeff or Slope:	1.111	1.112

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4920	79.5	800.2	796.3	1.005
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	796.3	Previous response	796.2	*% change	0.0%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		<i>* = > +/-5% change initiates investigation</i>	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.4	----
High point	4920	79.5	800.2	799.0	1.001
Mid point	4960	39.8	400.6	396.5	1.010
Low point	4980	19.9	200.3	196.4	1.020
As left zero	5000	0.0	0.0	0.3	----
As left span	4920	79.5	800.2	799.5	1.001
Average Correction Factor:					1.010

Notes: Changed the sample inlet filter after as founds. Adjusted span only.

Calibration Performed By: Jason Brooks and Mohammed Kashif



Wood Buffalo Environmental Association

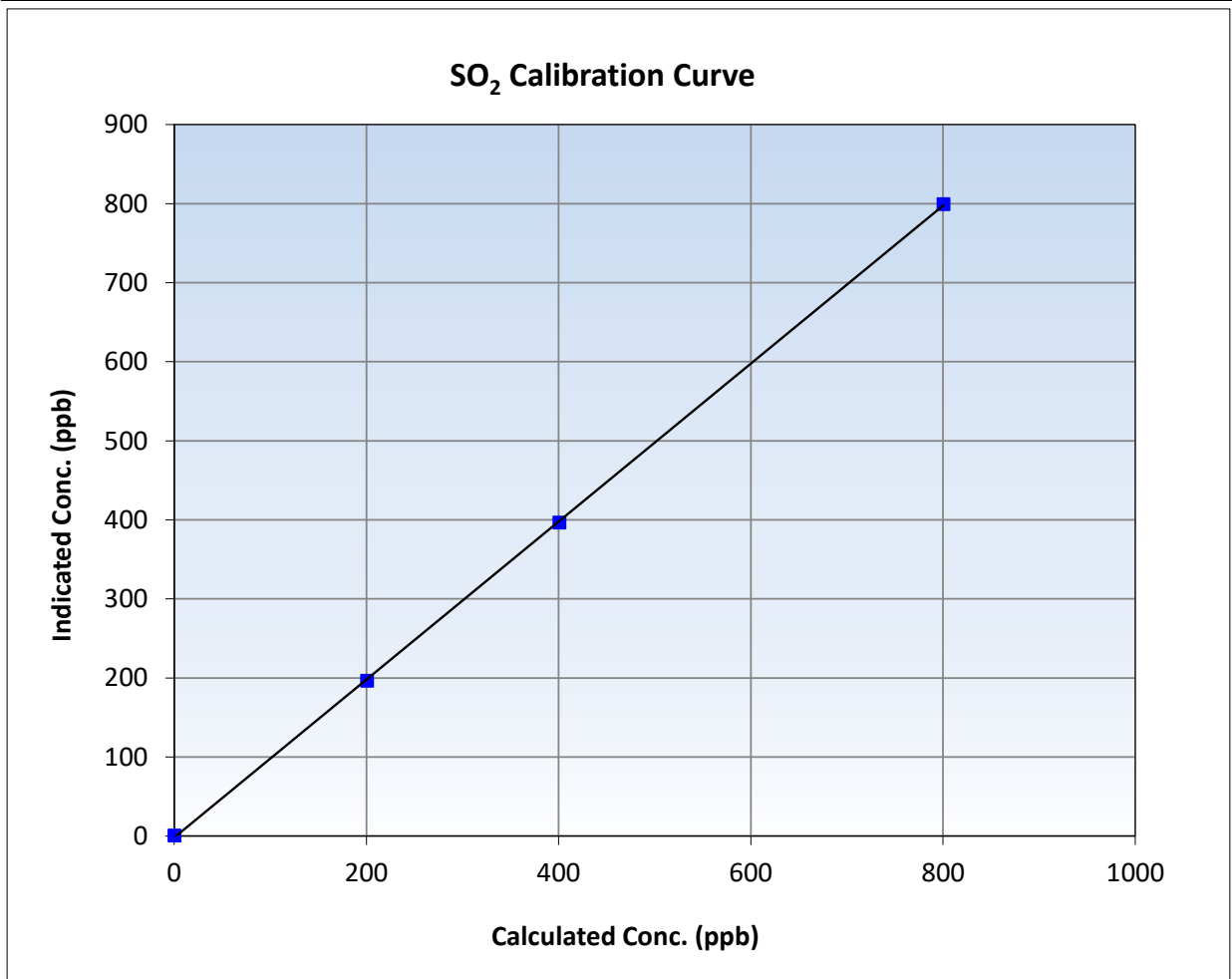
SO₂ Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 5, 2026
Station Name:	Anzac	Station Number:	AMS 14
Start Time (MST):	11:00	End Time (MST):	14:30
Analyzer make:	Thermo 43i	Analyzer serial #:	0710321322

Calibration Data

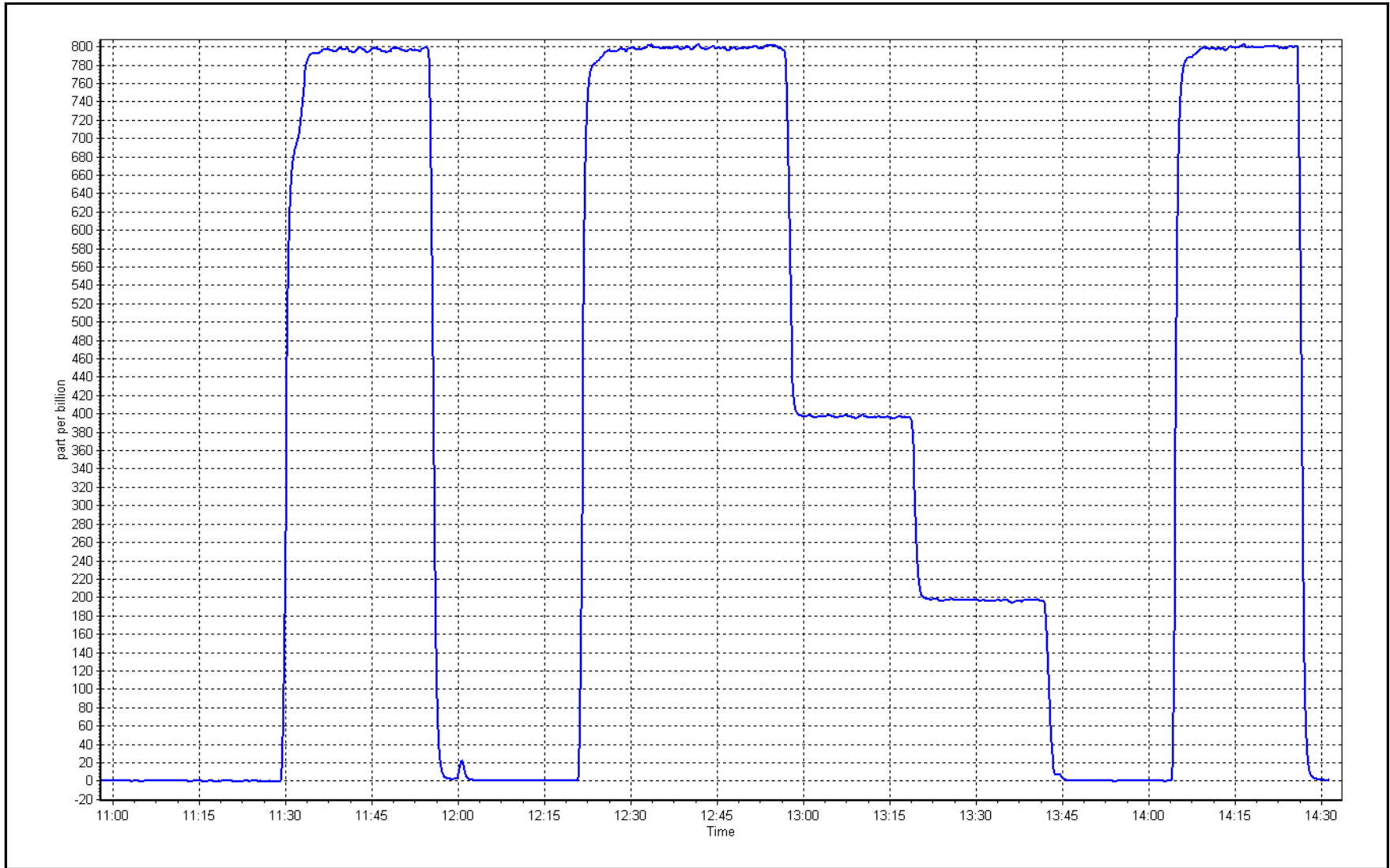
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.4	----	Correlation Coefficient	0.999960	≥0.995
800.2	799.0	1.0015	Slope	0.999176	0.90 - 1.10
400.6	396.5	1.0102	Intercept	-1.888613	+/-30
200.3	196.4	1.0197			



SO2 Calibration Plot

Date: February 2, 2026

Location: Anzac





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name:	Anzac	Station number:	AMS 14
Calibration Date:	February 12, 2026	Last Cal Date:	January 13, 2026
Start time (MST):	12:05	End time (MST):	18:37
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.81 ppm	Cal Gas Exp Date:	August 28, 2027
Cal Gas Cylinder #:	CC23420		
Removed Cal Gas Conc:	5.15 ppm	Rem Gas Exp Date:	January 3, 2026
Removed Gas Cyl #:	CC510379	Diff between cyl:	0.8%
Calibrator Make/Model:	API T700	Serial Number:	3060
ZAG Make/Model:	API 701H	Serial Number:	357

Analyzer Information

Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1218153582
Converter make:	CD Nova CDN-101	Converter serial #:	631
Analyzer Range	0 - 100 ppb	Converter Temp:	800 degC

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Calibration slope:	1.001320	1.006779	Backgd or Offset:	2.35
Calibration intercept:	-0.078609	-0.258397	Coeff or Slope:	1.006

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.1	----
As found High point	4922	77.7	80.0	80.5	0.993
As found Mid point	4961	38.9	40.1	40.1	0.997
As found Low point	4981	19.4	20.0	19.8	1.004
New cylinder response	4916	83.2	80.1	81.2	0.986
Baseline Corr As found:	80.6	Prev response:	80.06	*% change:	0.7%
Baseline Corr 2nd AF pt:	40.2	AF Slope:	1.007783	AF Intercept:	-0.218552
Baseline Corr 3rd AF pt:	19.9	AF Correlation:	0.999990	<i>* = > +/-5% change initiates investigation</i>	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.1	----
High point	4916	83.2	80.1	80.4	0.996
Mid point	4958	41.6	40.0	40.2	0.996
Low point	4979	20.8	20.0	19.3	1.037
As left zero	5000	0.0	0.0	0.3	----
As left span	4916	83.2	80.1	80.0	1.001
SO2 Scrubber Check	4921	79.5	794.9	0.0	----
Date of last scrubber change:	28-May-25			Ave Corr Factor	1.009
Date of last converter efficiency test:	September 16, 2025			103.4% efficiency	

Notes: Changed sample inlet filter and calibration gas after as founds. Ran scrubber check after calibrator zero and it passed. No adjustments made.

Calibration Performed By: Mohammed Kashif



Wood Buffalo Environmental Association

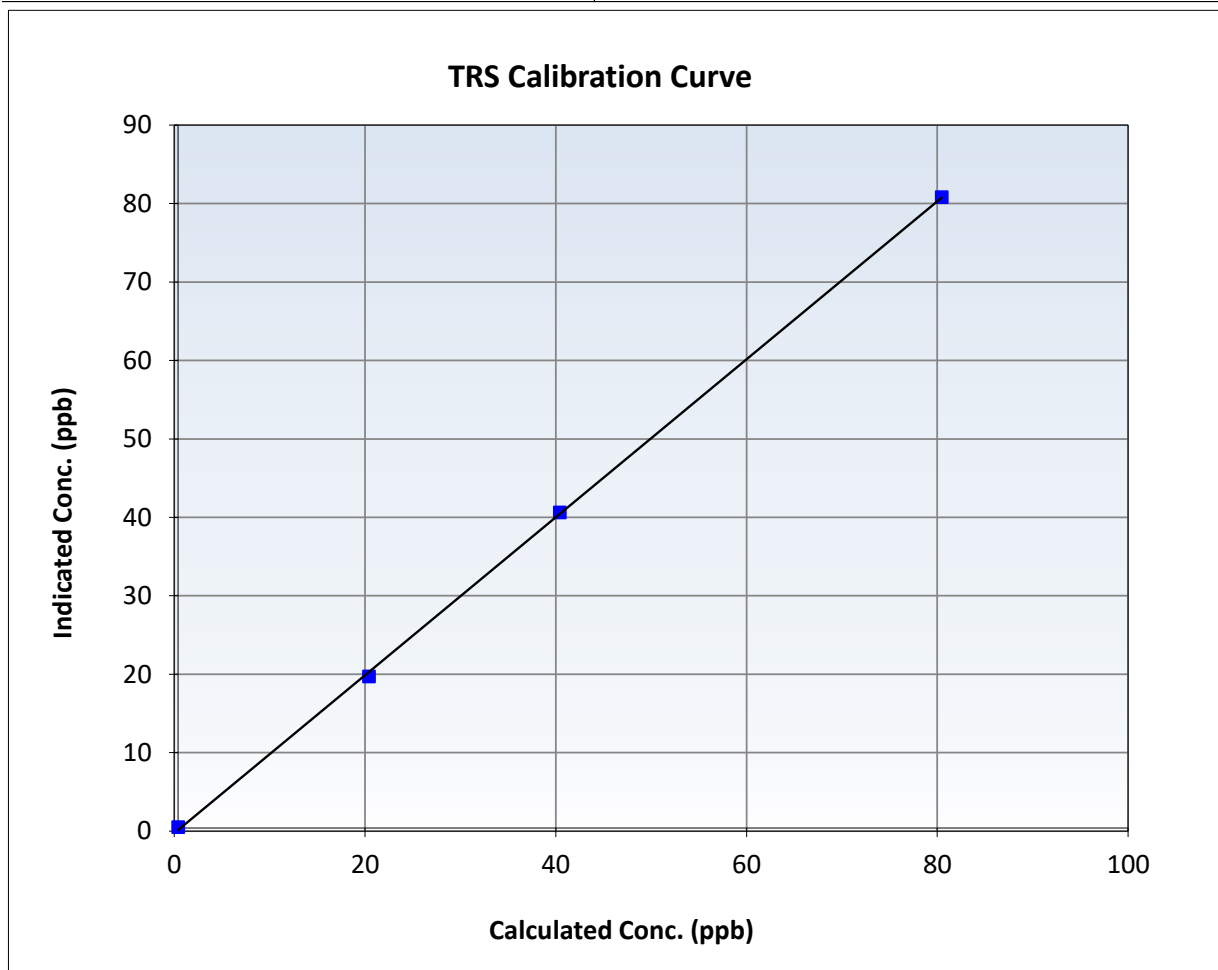
TRS Calibration Summary

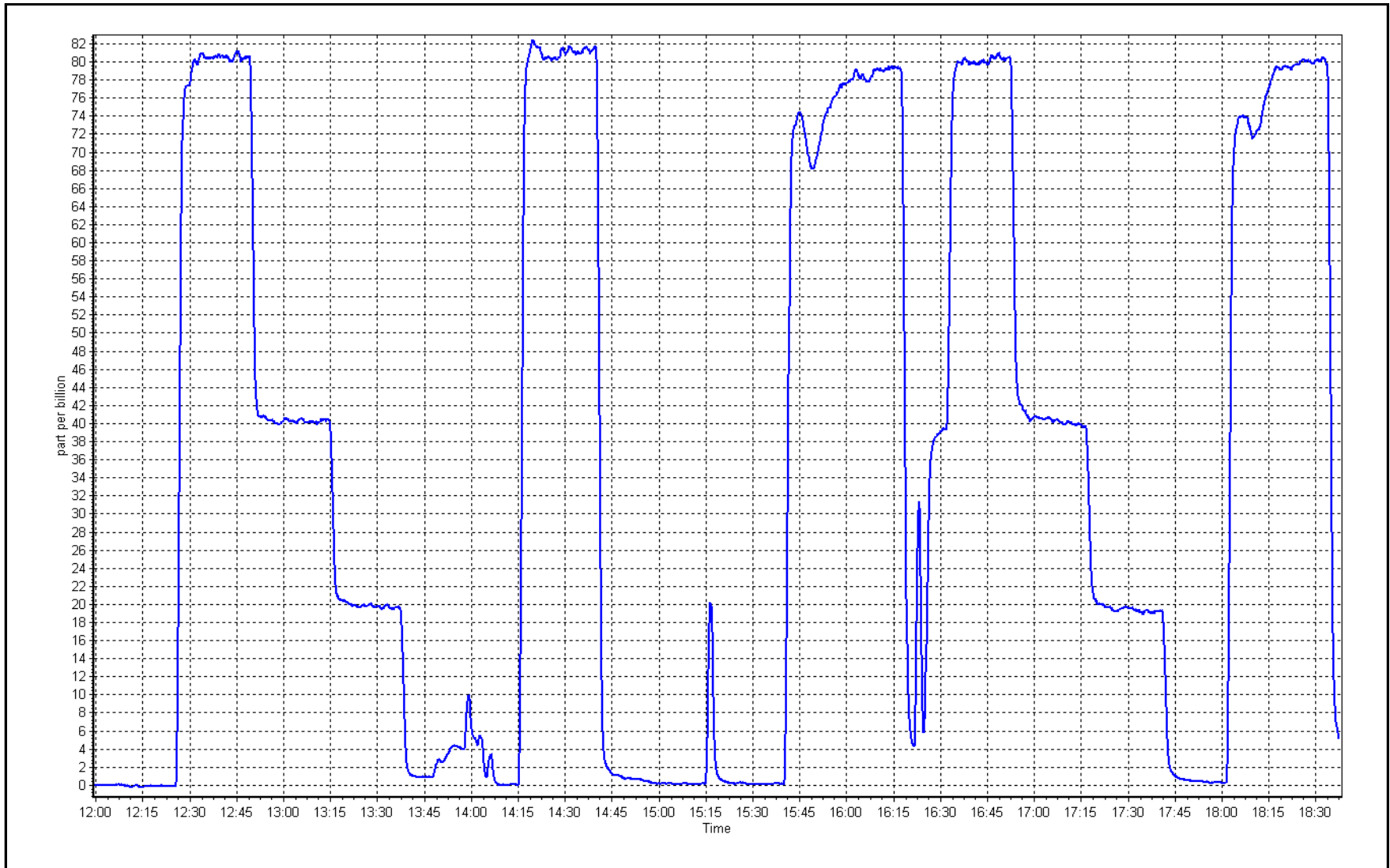
Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 13, 2026
Station Name:	Anzac	Station Number:	AMS 14
Start Time (MST):	12:05	End Time (MST):	18:37
Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1218153582

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999858	≥ 0.995
80.1	80.4	0.9957	Slope	1.006779	$0.90 - 1.10$
40.0	40.2	0.9956	Intercept	-0.258397	± 3
20.0	19.3	1.0368			







Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Anzac	Station number:	AMS 14
Calibration Date:	February 2, 2026	Last Cal Date:	January 8, 2026
Start time (MST):	11:00	End time (MST):	14:30
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC462030	Cal Gas Expiry Date:	October 9, 2032
CH4 Cal Gas Conc.	505.3 ppm	CH4 Equiv Conc.	1068.8 ppm
C3H8 Cal Gas Conc.	204.9 ppm		
Removed Gas Cert:	NA	Removed Gas Expiry:	NA
Removed CH4 Conc.	505.3 ppm	CH4 Equiv Conc.	1068.8 ppm
Removed C3H8 Conc.	204.9 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	API T700	Serial Number:	3060
Zero Air Gen model:	API 701H	Serial Number:	357

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1331259521
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	3.55E-04	3.64E-04	NMHC SP Ratio:	5.75E-05	5.85E-05
CH4 Retention time:	16.6	16.6	NMHC Peak Area:	155866	153078
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.5	17.00	16.68	1.019
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.68	Prev response	16.87	*% change	-1.1%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	79.5	17.00	16.95	1.003
Mid point	4960	39.8	8.51	8.33	1.021
Low point	4980	19.9	4.25	4.13	1.029
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.5	17.00	16.94	1.003
Average Correction Factor					1.018

Notes: Changed the sample inlet filter after as founds. Adjusted span only.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.5	8.96	8.83	1.015
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.83	Prev response	8.90	*% change	-0.8%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	79.5	8.96	8.93	1.004
Mid point	4960	39.8	4.49	4.41	1.018
Low point	4980	19.9	2.24	2.19	1.025
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.5	8.96	8.93	1.003
Average Correction Factor					1.016

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	79.5	8.04	7.86	1.023
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.86	Prev response	7.97	*% change	-1.5%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	79.5	8.04	8.03	1.001
Mid point	4960	39.8	4.02	3.93	1.024
Low point	4980	19.9	2.01	1.94	1.035
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	79.5	8.04	8.01	1.004
Average Correction Factor					1.020

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.996912	0.998471
THC Cal Offset:	-0.069980	-0.074579
CH ₄ Cal Slope:	0.997309	1.000480
CH ₄ Cal Offset:	-0.043675	-0.044079
NMHC Cal Slope:	0.996517	0.997281
NMHC Cal Offset:	-0.026904	-0.030902

Calibration Performed By: Jason Brooks and Mohammed Kashif



Wood Buffalo Environmental Association

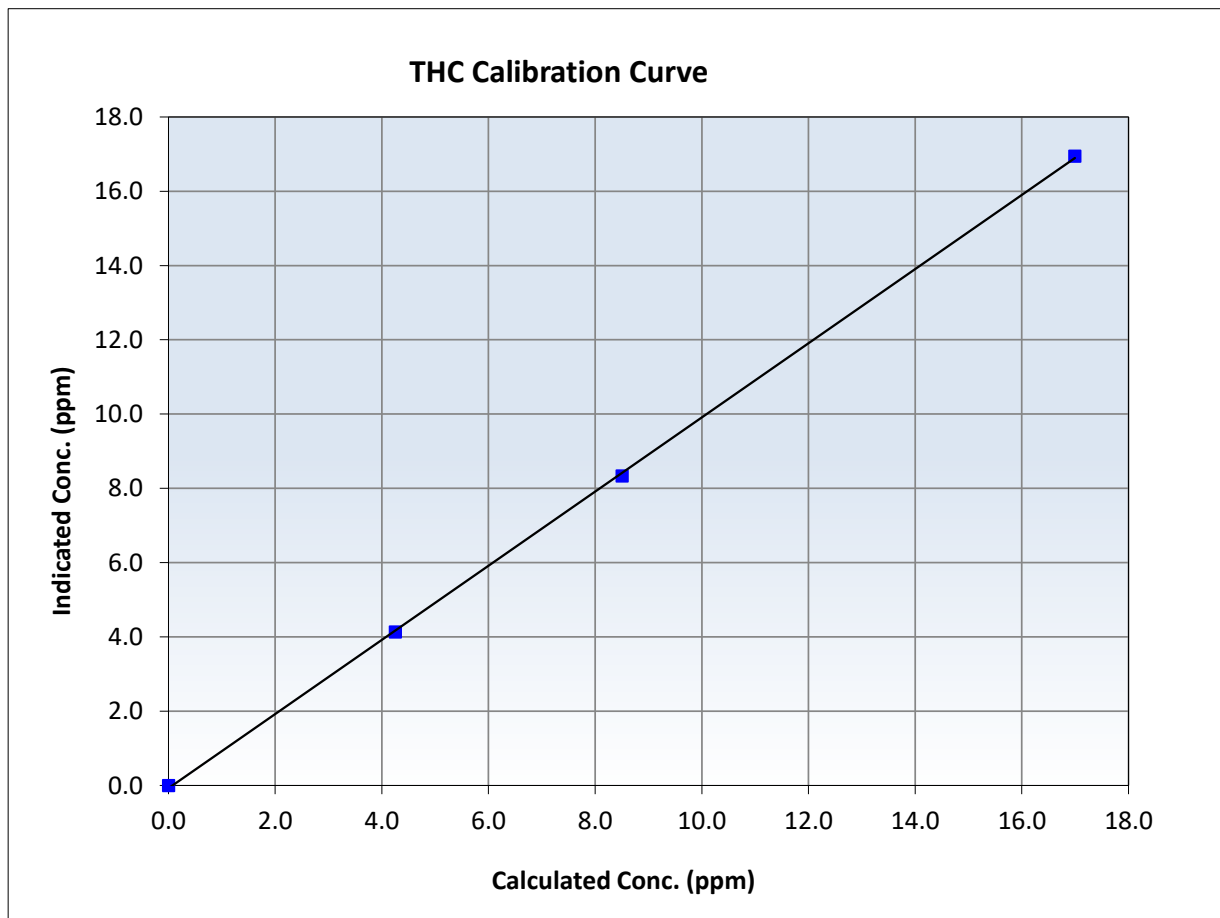
THC Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 8, 2026
Station Name:	Anzac	Station Number:	AMS 14
Start Time (MST):	11:00	End Time (MST):	14:30
Analyzer make:	Thermo 55i	Analyzer serial #:	1331259521

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999886	<i>>0.995</i>
17.00	16.95	1.0027	Slope	0.998471	<i>0.90 - 1.10</i>
8.51	8.33	1.0211	Intercept	-0.074579	<i>+/-0.5</i>
4.25	4.13	1.0295			





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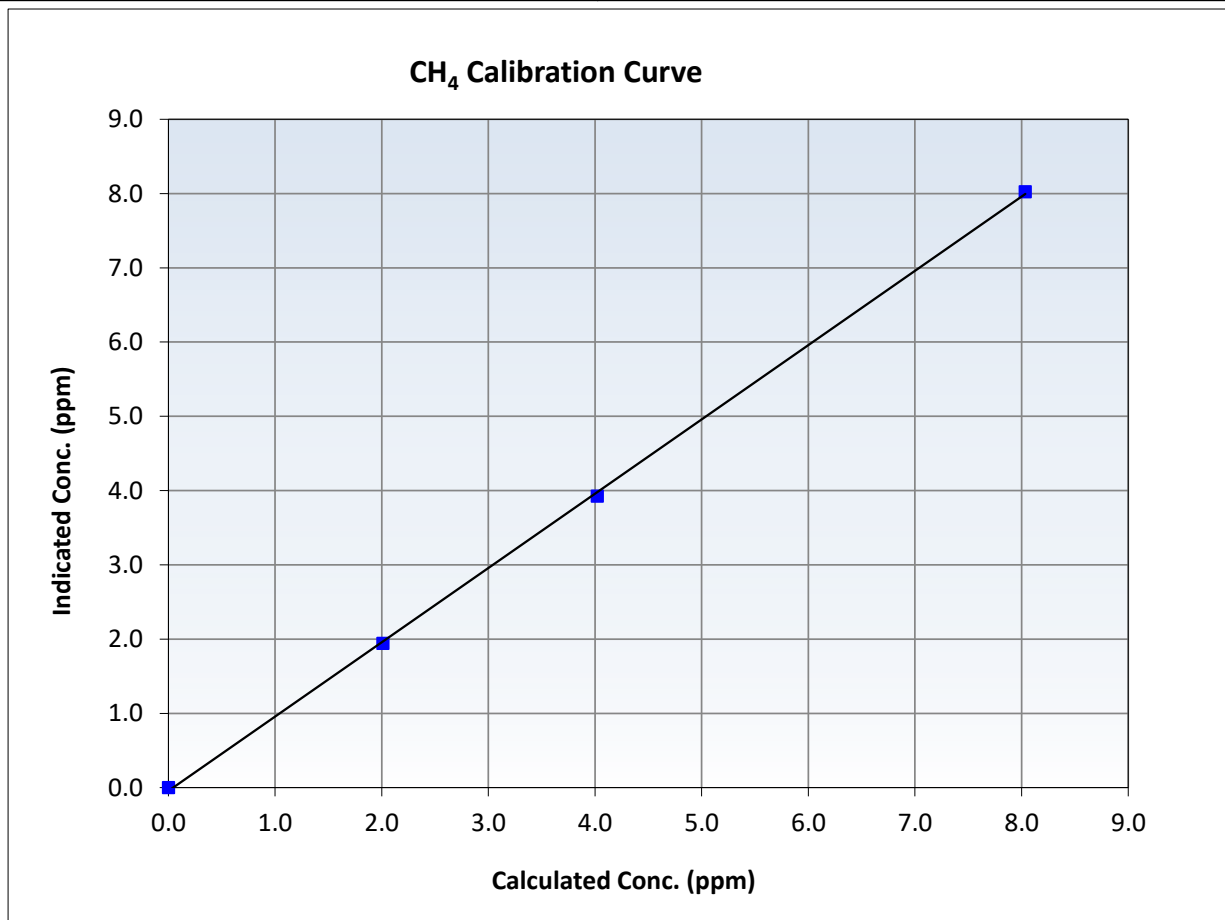
CH₄ Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 8, 2026
Station Name:	Anzac	Station Number:	AMS 14
Start Time (MST):	11:00	End Time (MST):	14:30
Analyzer make:	Thermo 55i	Analyzer serial #:	1331259521

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999822	<i>≥0.995</i>
8.04	8.03	1.0010	Slope	1.000480	<i>0.90 - 1.10</i>
4.02	3.93	1.0240	Intercept	-0.044079	<i>+/-0.5</i>
2.01	1.94	1.0345			





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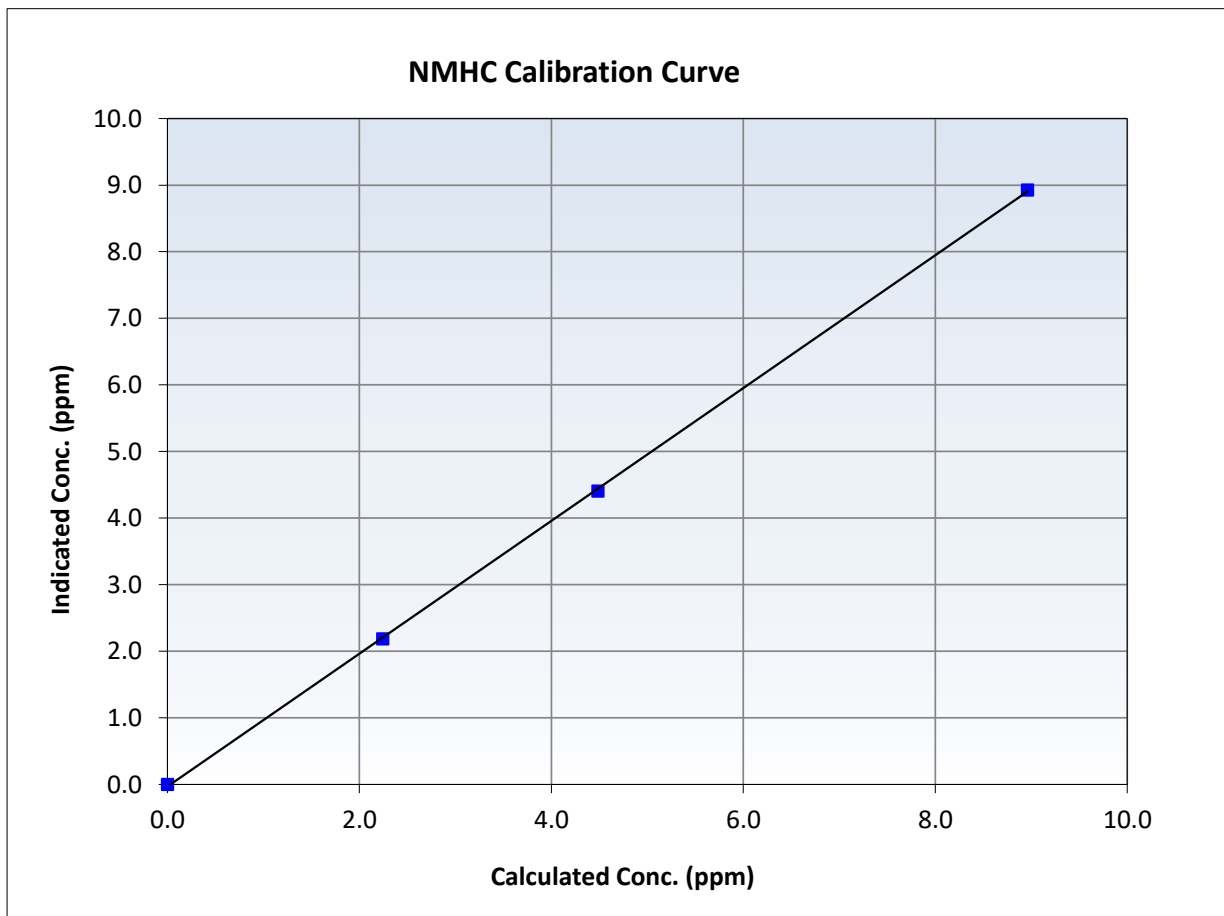
NMHC Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 8, 2026
Station Name:	Anzac	Station Number:	AMS 14
Start Time (MST):	11:00	End Time (MST):	14:30
Analyzer make:	Thermo 55i	Analyzer serial #:	1331259521

Calibration Data

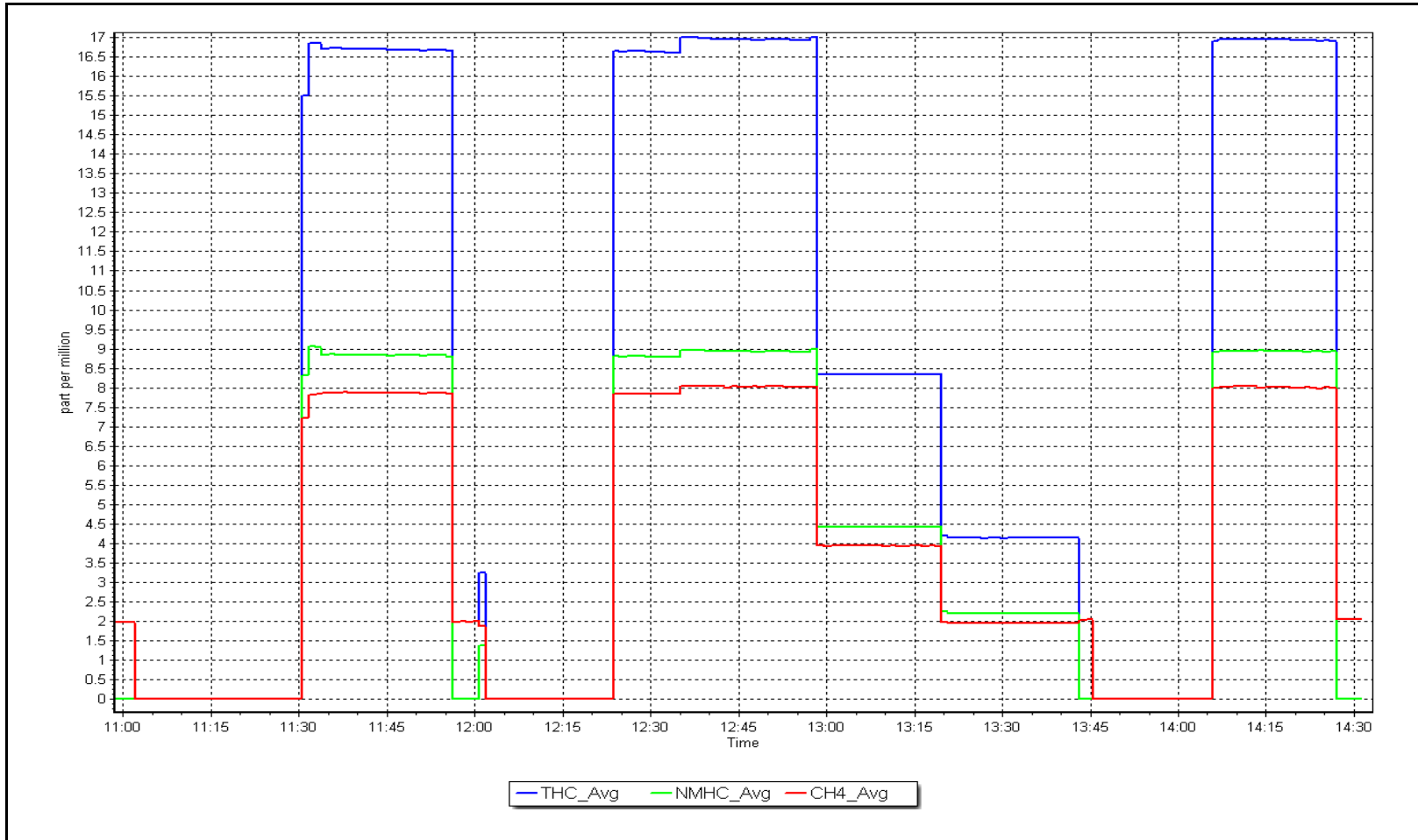
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999931	<i>≥0.995</i>
8.96	8.93	1.0037	Slope	0.997281	<i>0.90 - 1.10</i>
4.49	4.41	1.0178	Intercept	-0.030902	<i>+/-0.5</i>
2.24	2.19	1.0250			



NMHC Calibration Plot

Date: February 2, 2026

Location: Anzac





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Anzac
 Station number: AMS 14
 Calibration Date: February 3, 2026
 Last Cal Date: January 20, 2026
 Start time (MST): 10:52
 End time (MST): 15:56
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0037092
 NOX Cal Gas Conc: 60.7 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 60.70 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701H
 Cal Gas Expiry Date: May 16, 2031
 NO Cal Gas Conc: 60.40 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 60.40 ppm
 NO gas Diff:
 Serial Number: 3060
 Serial Number: 357

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.2	-0.1	0.2	----	----
AF High point	4934	66.2	803.6	799.7	4.0	799.4	793.8	5.6	1.0056	1.0073
AF Mid point										
AF Low point										
New cyl resp										

Previous Response	NO _x = 802.6 ppb	NO = 800.1 ppb	<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -0.4%
Baseline Corr 1st pt	NO _x = 799.2 ppb	NO = 793.9 ppb	<u>As Found Statistics</u>		*Percent Change	NO = -0.8%
Baseline Corr 2nd pt	NO _x = NA ppb	NO = NA ppb	As found	NO _x r ² :	Nx SI:	Nx Int:
Baseline Corr 3rd pt	NO _x = NA ppb	NO = NA ppb	As found	NO r ² :	NO SI:	NO Int:
			As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1152430008

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.999397	0.990891
NO _x Cal Offset:	-0.513472	-0.571229
NO Cal Slope:	1.002687	0.994166
NO Cal Offset:	-1.752460	-2.169946
NO ₂ Cal Slope:	0.998794	0.998022
NO ₂ Cal Offset:	-1.219384	-0.790237

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.331	1.331	NO bkgnd or offset:	3.6	3.6
NOX coeff or slope:	0.997	0.997	NOX bkgnd or offset:	3.6	3.6
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	149.4	152.1

Dilution Calibration Data

Set Point	Dilution flow rate (scm)	Source gas flow rate (scm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.3	0.1	0.2	----	----
High point	4934	66.2	803.6	799.7	4.0	796.2	794.0	2.2	1.0093	1.0071
Mid point	4967	33.1	401.8	399.8	2.0	397.1	394.1	3.0	1.0119	1.0146
Low point	4983	16.6	201.5	200.5	1.0	198.3	195.0	3.3	1.0163	1.0284
As left zero	5000	0.0	0.0	0.0	0.0	0.3	0.1	0.2	----	----
As left span	4934	66.2	803.6	408.8	394.8	794.8	408.8	386.0	1.0111	1.0000
Average Correction Factor									1.0125	1.0167

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.2	----	----
High GPT point	791.3	403.1	392.2	391.1	1.0027	99.7%
Mid GPT point	791.3	601.3	194.0	192.3	1.0087	99.1%
Low GPT point	791.3	696.7	98.6	96.6	1.0204	98.0%
Average Correction Factor					1.0106	99.0%

Notes:

Sample inlet filter was changed after as founds. No adjustments made.

Calibration Performed By: Jason Brooks & Mohammed Kashif



Wood Buffalo Environmental Association

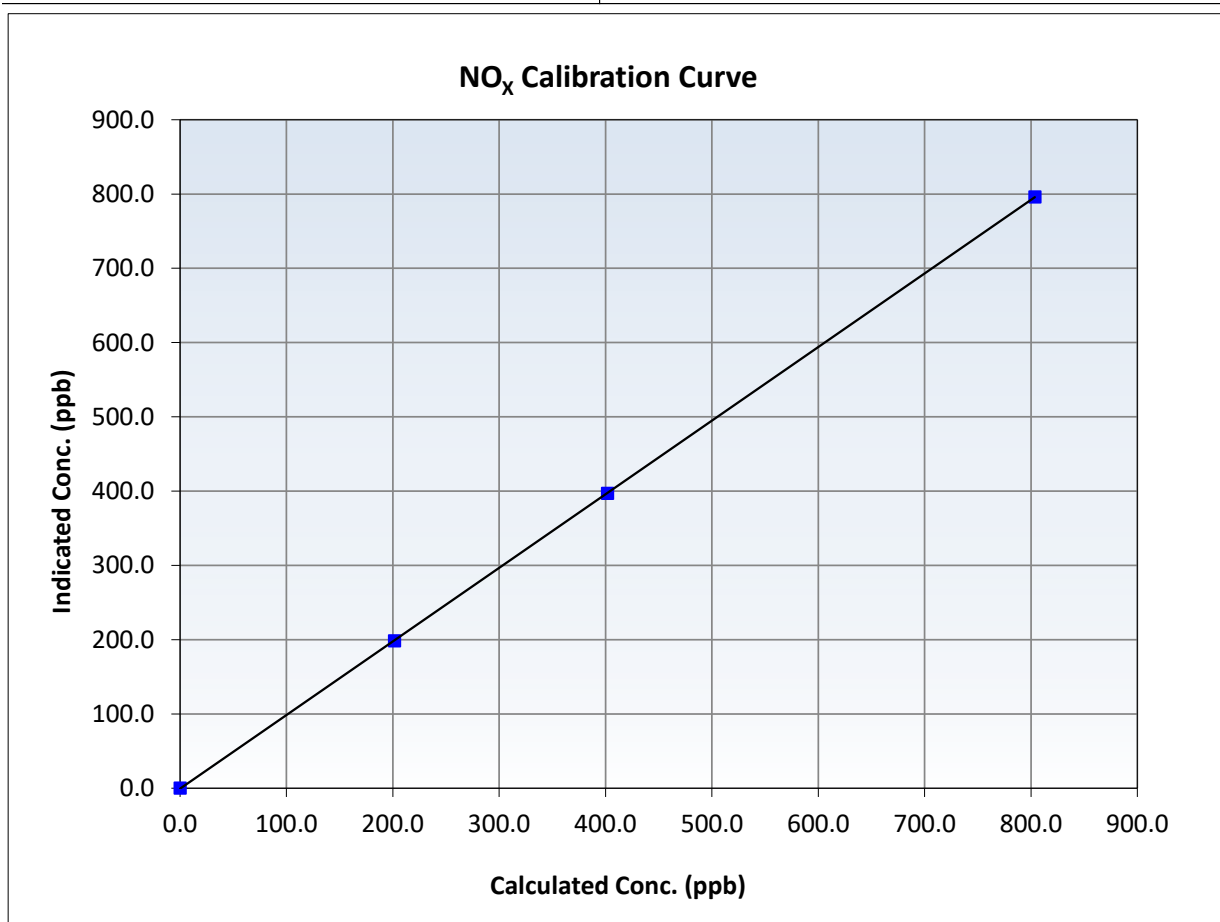
NO_x Calibration Summary

Station Information

Calibration Date:	February 3, 2026	Previous Calibration:	January 20, 2026
Station Name:	Anzac	Station Number:	AMS 14
Start Time (MST):	10:52	End Time (MST):	15:56
Analyzer make:	Thermo 42i	Analyzer serial #:	1152430008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.3	----	Correlation Coefficient	0.999995	<i>≥0.995</i>
803.6	796.2	1.0093	Slope	0.990891	<i>0.90 - 1.10</i>
401.8	397.1	1.0119	Intercept	-0.571229	<i>+/-20</i>
201.5	198.3	1.0163			





Wood Buffalo Environmental Association

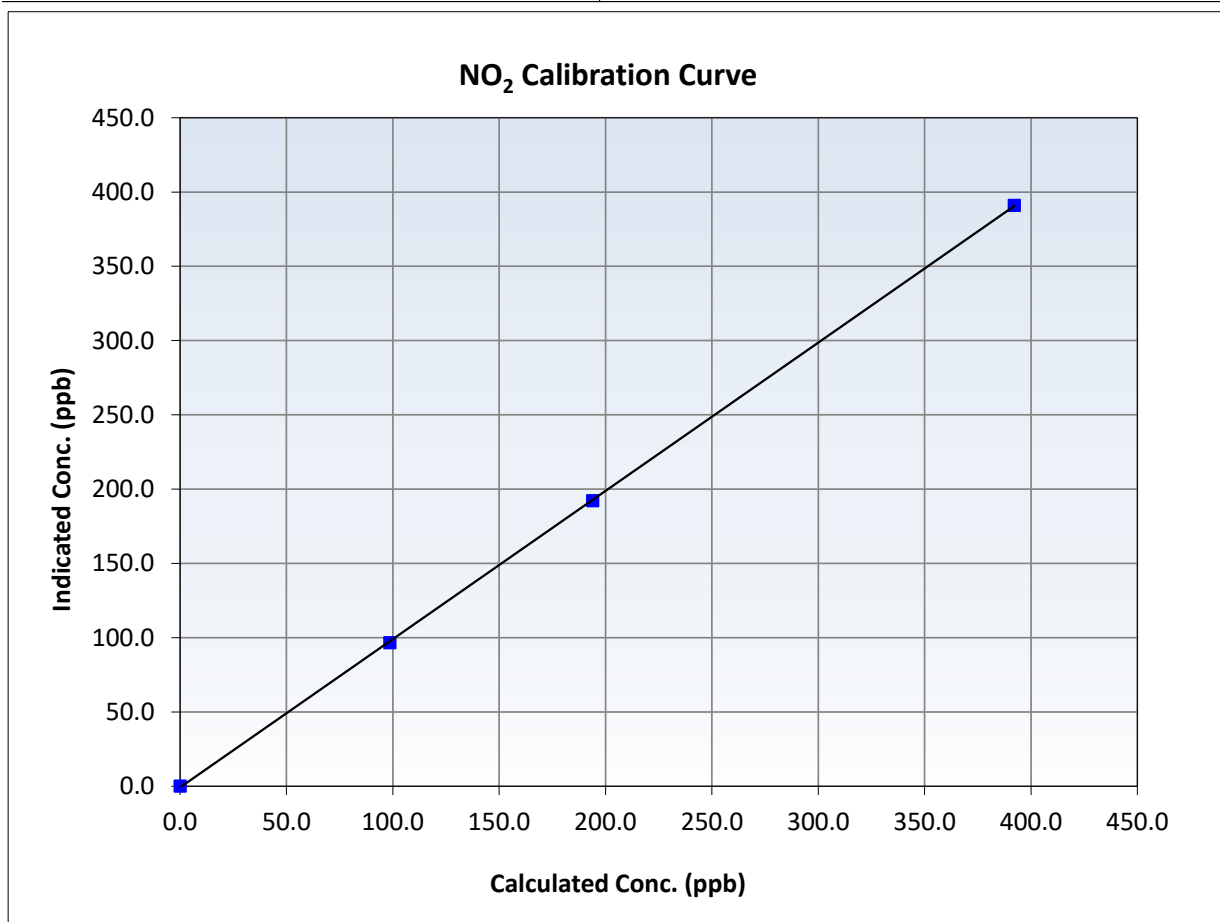
NO₂ Calibration Summary

Station Information

Calibration Date:	February 3, 2026	Previous Calibration:	January 20, 2026
Station Name:	Anzac	Station Number:	AMS 14
Start Time (MST):	10:52	End Time (MST):	15:56
Analyzer make:	Thermo 42i	Analyzer serial #:	1152430008

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999971	<i>≥0.995</i>
392.2	391.1	1.0027	Slope	0.998022	<i>0.90 - 1.10</i>
194.0	192.3	1.0087	Intercept	-0.790237	<i>+/-20</i>
98.6	96.6	1.0204			





Wood Buffalo Environmental Association

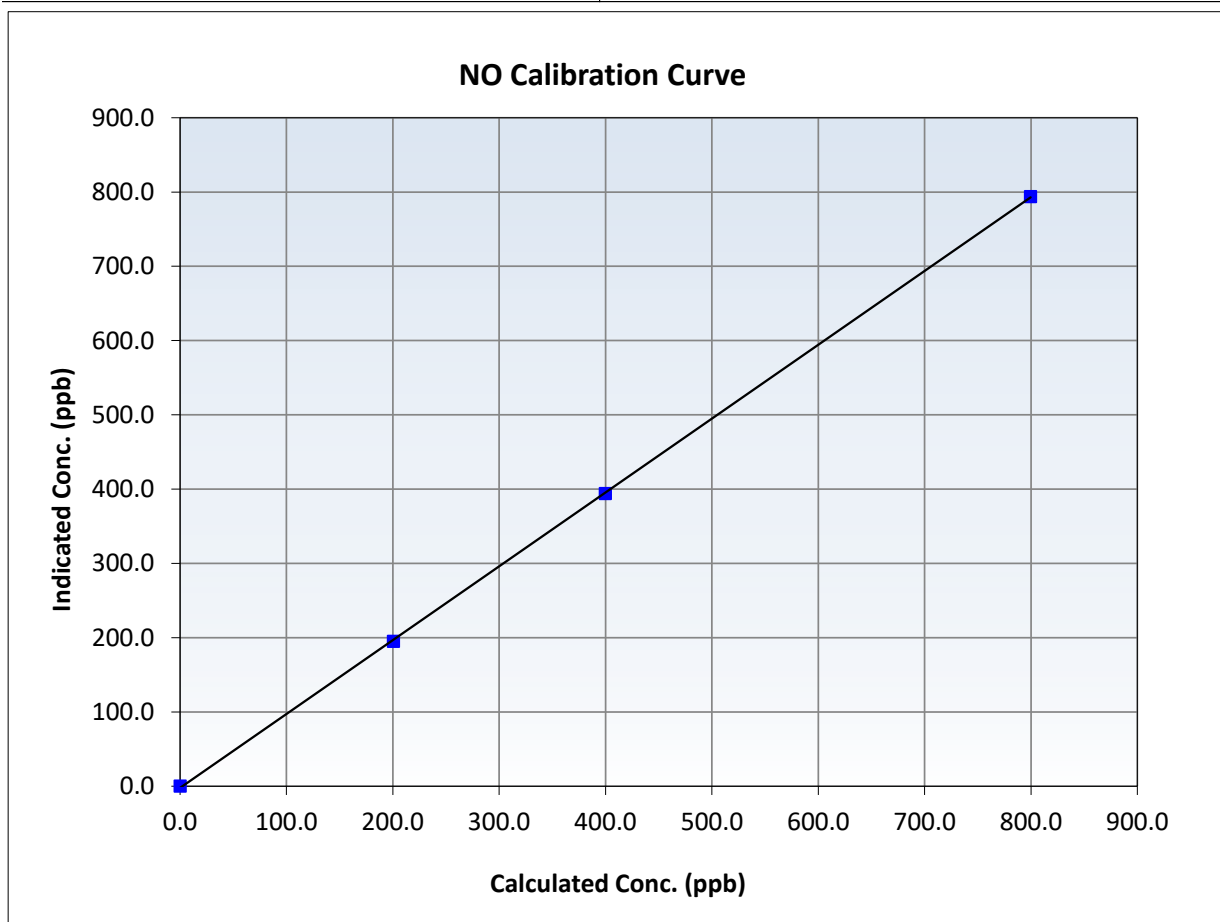
NO Calibration Summary

Station Information

Calibration Date:	February 3, 2026	Previous Calibration:	January 20, 2026
Station Name:	Anzac	Station Number:	AMS 14
Start Time (MST):	10:52	End Time (MST):	15:56
Analyzer make:	Thermo 42i	Analyzer serial #:	1152430008

Calibration Data

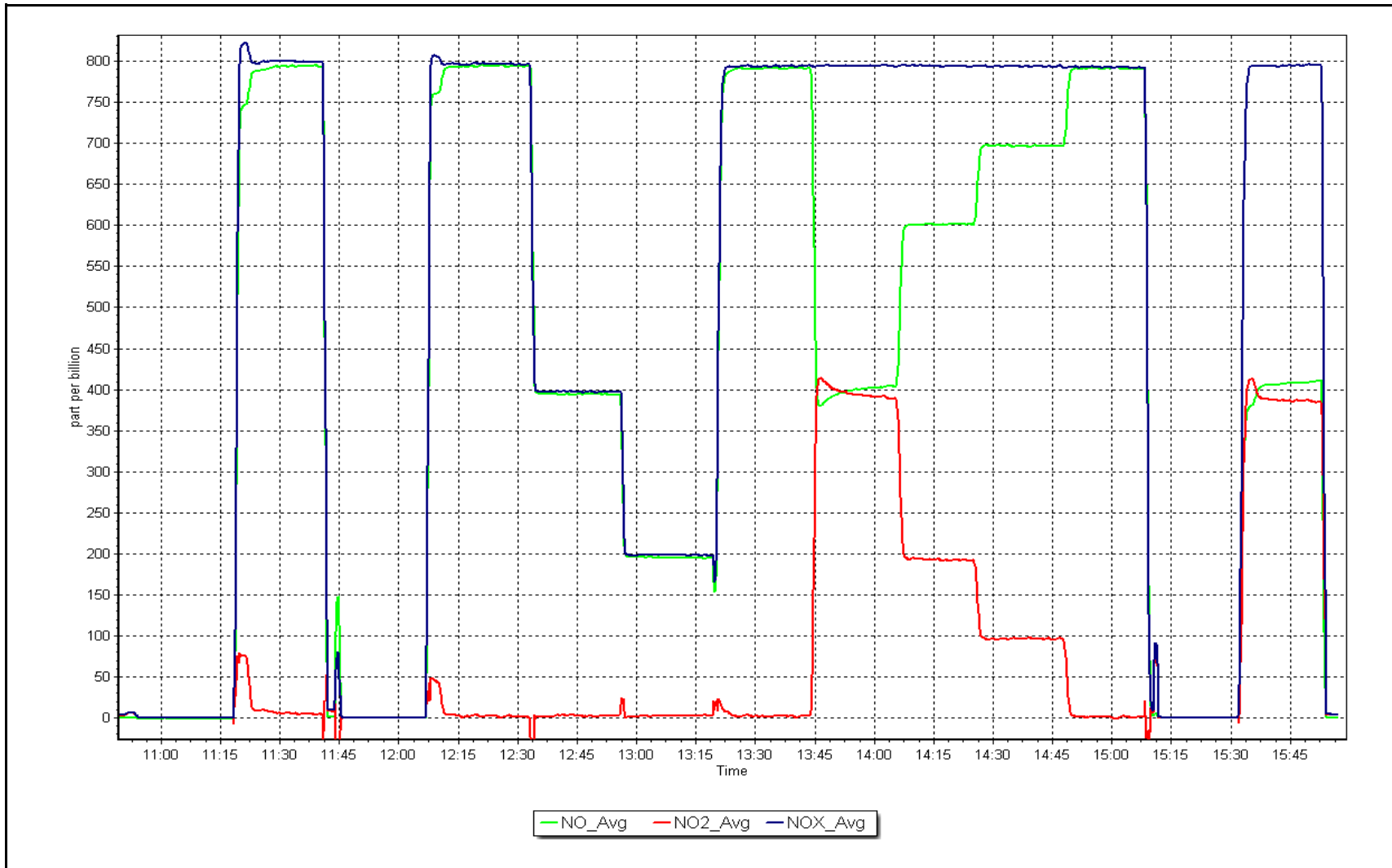
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.1	----	Correlation Coefficient	0.999963	≥0.995
799.7	794.0	1.0071	Slope	0.994166	0.90 - 1.10
399.8	394.1	1.0146	Intercept	-2.169946	+/-20
200.5	195.0	1.0284			



NO_x Calibration Plot

Date: February 3, 2026

Location: Anzac





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Anzac	Station number:	AMS 14
Calibration Date:	February 6, 2026	Last Cal Date:	January 15, 2026
Start time (MST):	10:58	End time (MST):	13:46
Reason:	Routine		

Calibration Standards

O3 generation mode:	Photometer	Serial Number:	3060
Calibrator Make/Model:	API T700	Serial Number:	357
ZAG Make/Model:	API 701H		

Analyzer Information

Analyzer make:	Thermo 49i	Analyzer serial #:	1426262595
Analyzer Range	0 - 500 ppb		

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Calibration slope:	0.999343	0.993343	Backgd or Offset:	1.1
Calibration intercept:	0.340000	0.640000	Coeff or Slope:	1.670

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.8	----
As found High point	5000	941.3	400.0	396.2	1.012
As found Mid point					
As found Low point					
Baseline Corr As found:	395.4	Previous response	400.1	*% change	-1.2%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.6	----
High point	5000	941.3	400.0	398.1	1.005
Mid point	5000	820.3	200.0	198.9	1.006
Low point	5000	724.3	100.0	100.3	0.997
As left zero	5000	0.0	0.0	0.4	----
As left span	5000	941.3	400.0	400.3	0.999
Average Correction Factor					1.002

Notes: Sample inlet filter changed after asfound. No adjustments made

Calibration Performed By: Jason Brooks and Mohammed Kashif



Wood Buffalo Environmental Association

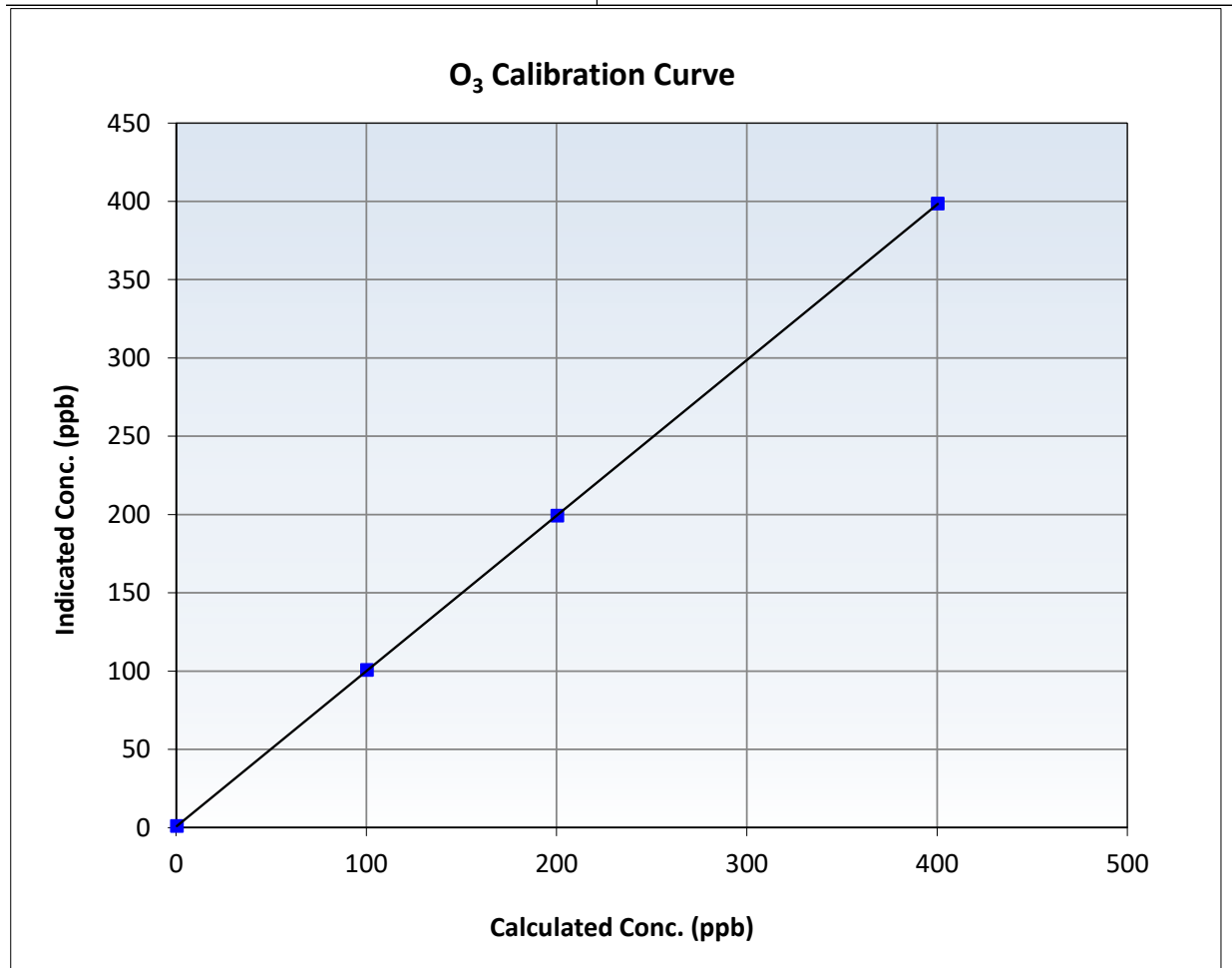
O₃ Calibration Summary

Station Information

Calibration Date:	February 6, 2026	Previous Calibration:	January 15, 2026
Station Name:	Anzac	Station Number:	AMS 14
Start Time (MST):	10:58	End Time (MST):	13:46
Analyzer make:	Thermo 49i	Analyzer serial #:	1426262595

Calibration Data

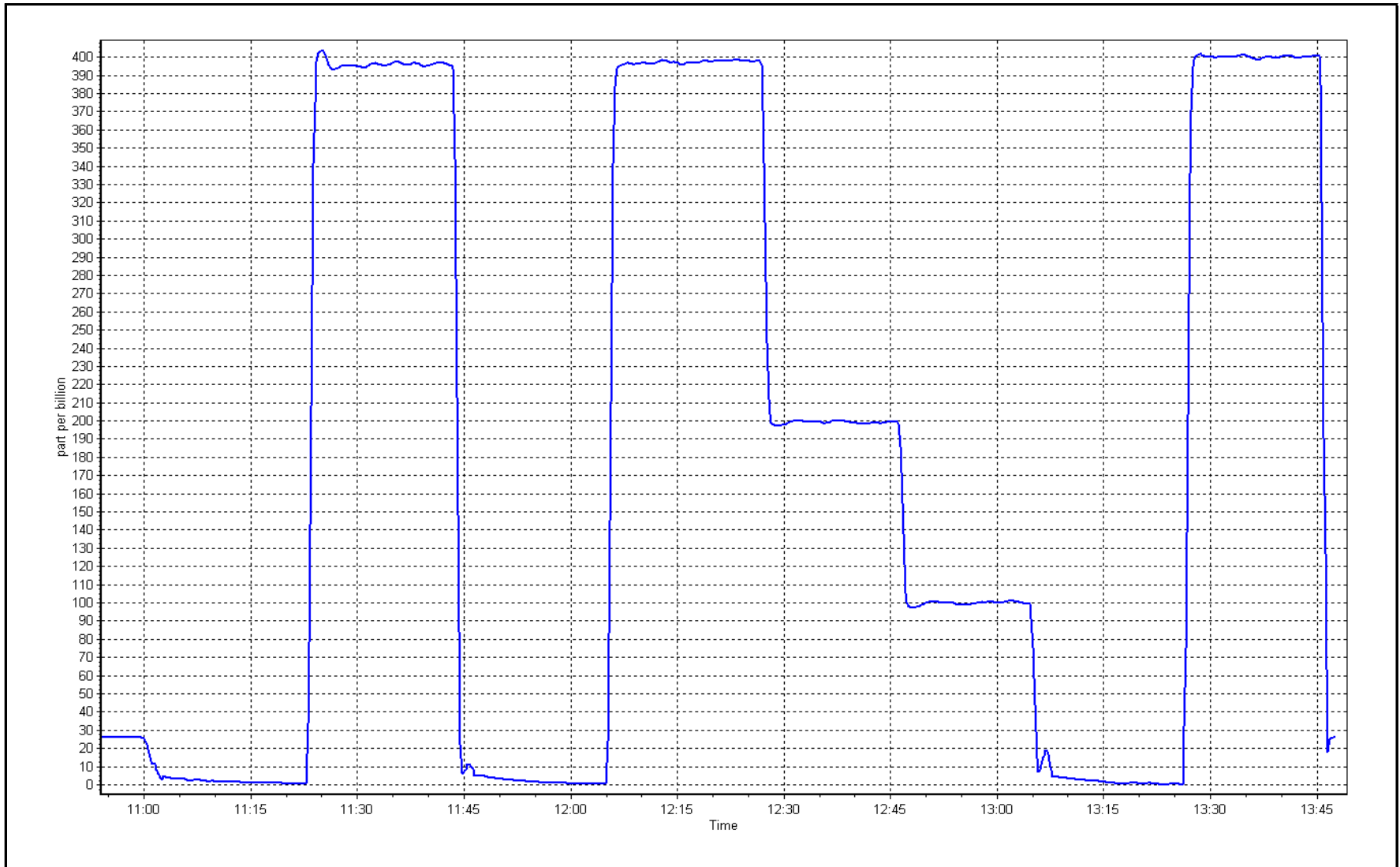
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.6	----	Correlation Coefficient	0.999997	≥0.995
400.0	398.1	1.0048	Slope	0.993343	0.90 - 1.10
200.0	198.9	1.0055	Intercept	0.640000	+/- 5
100.0	100.3	0.9970			



O₃ Calibration Plot

Date: February 6, 2026

Location: Anzac





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

**AMS17
WAPASU
FEBRUARY 2026**

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Wapasu	Station number:	AMS17
Calibration Date:	February 23, 2026	Last Cal Date:	January 12, 2026
Start time (MST):	12:10	End time (MST):	16:48
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.12	ppm	Cal Gas Exp Date:	April 9, 2033
Cal Gas Cylinder #:	CC422255			
Removed Cal Gas Conc:	50.12	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:	N/A		Diff between cyl:	
Calibrator Model:	Teledyne API T700		Serial Number:	2449
Zero Air Gen Model:	Teledyne API 701H		Serial Number:	1238

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	1218153459
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.997676	1.001405	Backgd or Offset:	15.4	15.4
Calibration intercept:	-2.534458	-3.114919	Coeff or Slope:	1.113	1.113

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.1	----
As found High point	4920	79.8	799.9	796.4	1.004
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	796.5	Previous response	795.6	*% change	0.1%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	4920	79.8	799.9	799.9	1.000
Mid point	4960	39.9	400.0	394.6	1.014
Low point	4980	20.0	200.5	195.5	1.025
As left zero	5000	0.0	0.0	-0.2	----
As left span	4920	79.8	799.9	799.7	1.000
Average Correction Factor:					1.013

Notes: Inlet filter changed after as founds. No adjustments made.

Calibration Performed By: Aswin Sasi Kumar & Jason Brooks



Wood Buffalo Environmental Association

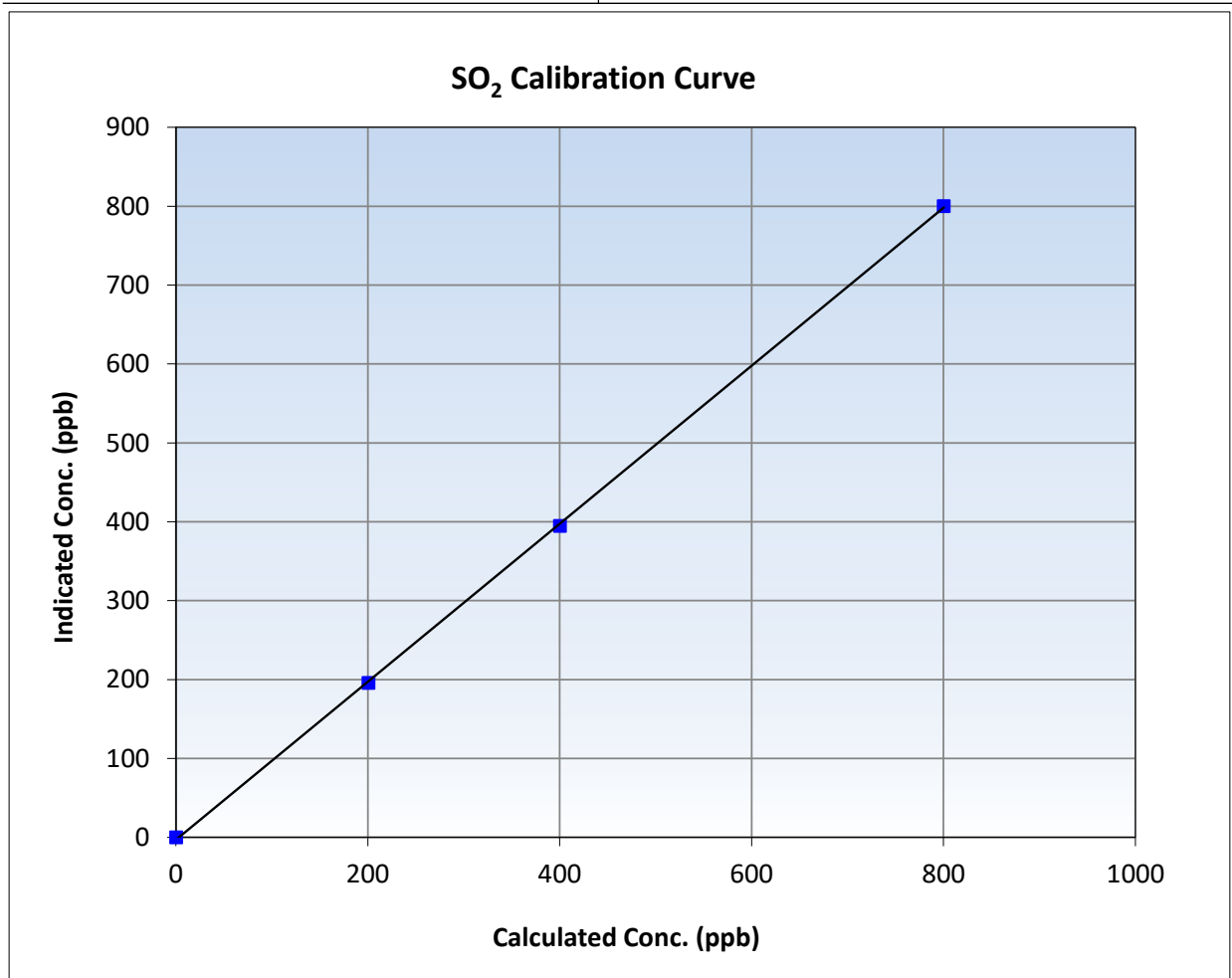
SO₂ Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 12, 2026
Station Name:	Wapasu	Station Number:	AMS17
Start Time (MST):	12:10	End Time (MST):	16:48
Analyzer make:	Thermo 43i	Analyzer serial #:	1218153459

Calibration Data

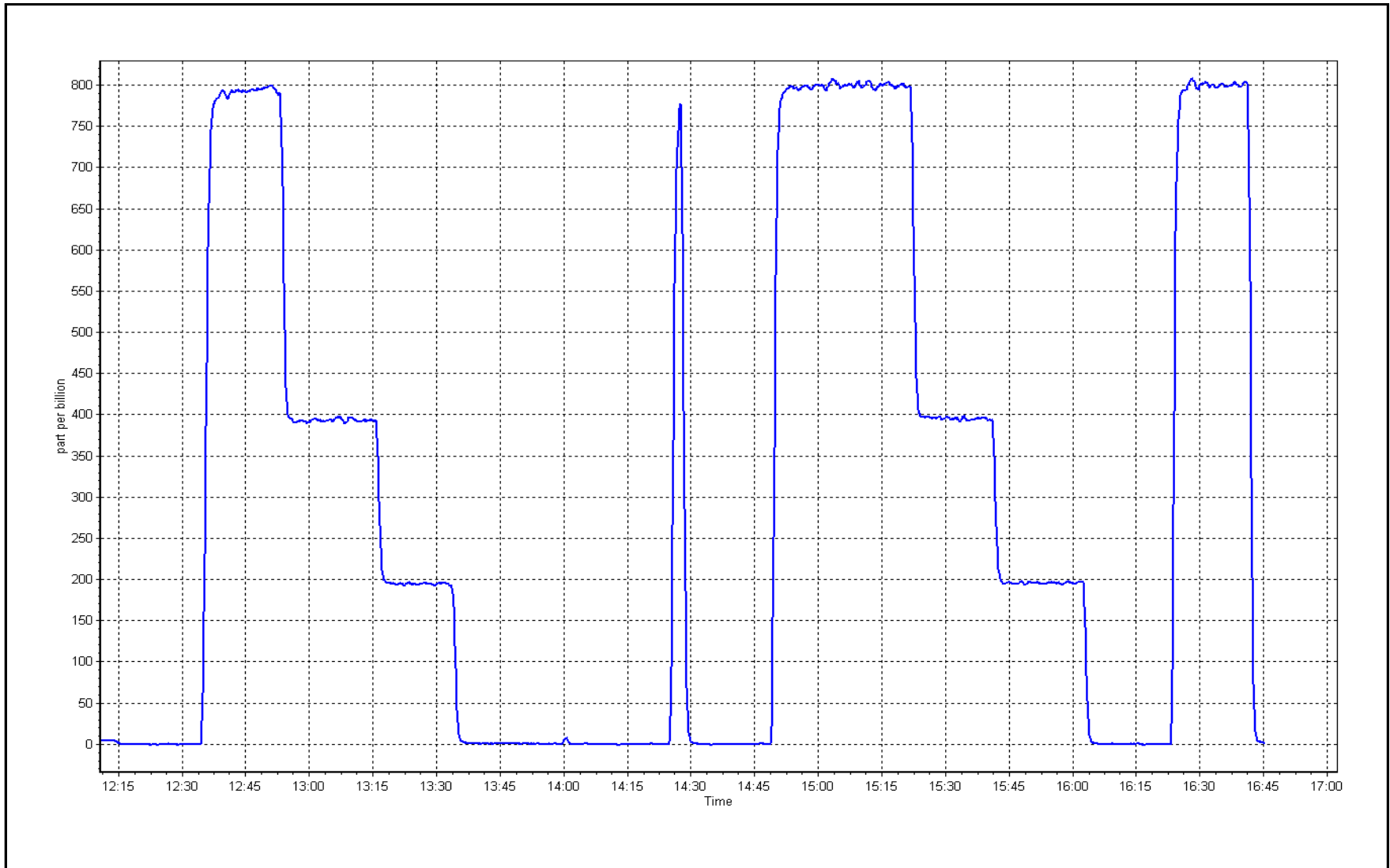
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	-0.1	----	Correlation Coefficient	0.999928	≥0.995
799.9	799.9	1.0001	Slope	1.001405	0.90 - 1.10
400.0	394.6	1.0136	Intercept	-3.114919	+/-30
200.5	195.5	1.0255			



SO2 Calibration Plot

Date: February 23, 2026

Location: Wapasu





Wood Buffalo Environmental Association

H₂S Calibration Report

Station Information

Station Name:	Wapasu	Station number:	AMS 17
Calibration Date:	February 9, 2026	Last Cal Date:	January 21, 2026
Start time (MST):	12:14	End time (MST):	16:02
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.77	ppm	Cal Gas Exp Date:	August 28, 2027
Cal Gas Cylinder #:	DT20029267			
Removed Cal Gas Conc:	4.77	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:			Diff between cyl:	
Calibrator Make/Model:	API T700		Serial Number:	2449
ZAG Make/Model:	API T701H		Serial Number:	359

Analyzer Information

Analyzer make:	Thermo 43iQ-TL	Analyzer serial #:	12228021057
Converter make:	Global G150	Converter serial #:	2022-219
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.012778	1.005211	Backgd or Offset:	2.8	2.92
Calibration intercept:	-0.059771	-0.119841	Coeff or Slope:	1.043	1.091

H₂S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4916	83.9	80.0	76.5	1.046
As found Mid point	4958	41.9	40.0	38.1	1.049
As found Low point	4979	21.0	20.0	19.0	1.054
New cylinder response					
Baseline Corr As found:	76.5	Prev response:	81.01	*% change:	-5.9%
Baseline Corr 2nd AF pt:	38.1	AF Slope:	0.956228	AF Intercept:	-0.079850
Baseline Corr 3rd AF pt:	19.0	AF Correlation:	0.999995	* = +/-5% change initiates investigation	

H₂S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4916	83.9	80.0	80.4	0.996
Mid point	4958	41.9	40.0	40.0	0.999
Low point	4979	21.0	20.0	19.9	1.007
As left zero	5000	0.0	0.0	0.1	----
As left span	4916	83.9	80.0	80.3	0.997
SO2 Scrubber Check	4921	79.4	793.9	0.1	----
Date of last scrubber change:		N/A		Ave Corr Factor	1.001
Date of last converter efficiency test:		N/A			

Notes: Span adjusted.

Calibration Performed By: Aswin Sasi Kumar



Wood Buffalo Environmental Association

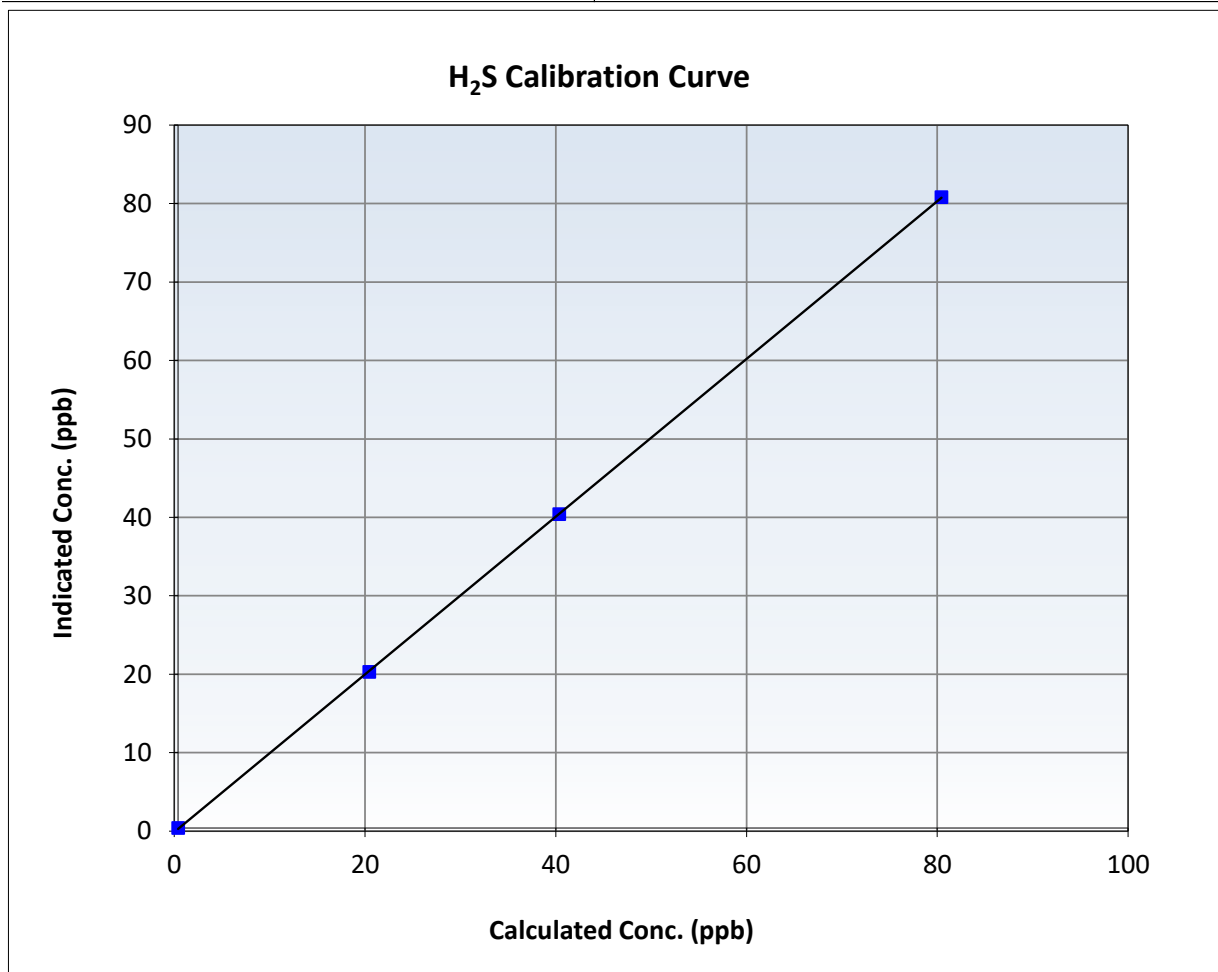
H₂S Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 21, 2026
Station Name:	Wapasu	Station Number:	AMS 17
Start Time (MST):	12:14	End Time (MST):	16:02
Analyzer make:	Thermo 43iQ-TL	Analyzer serial #:	12228021057

Calibration Data

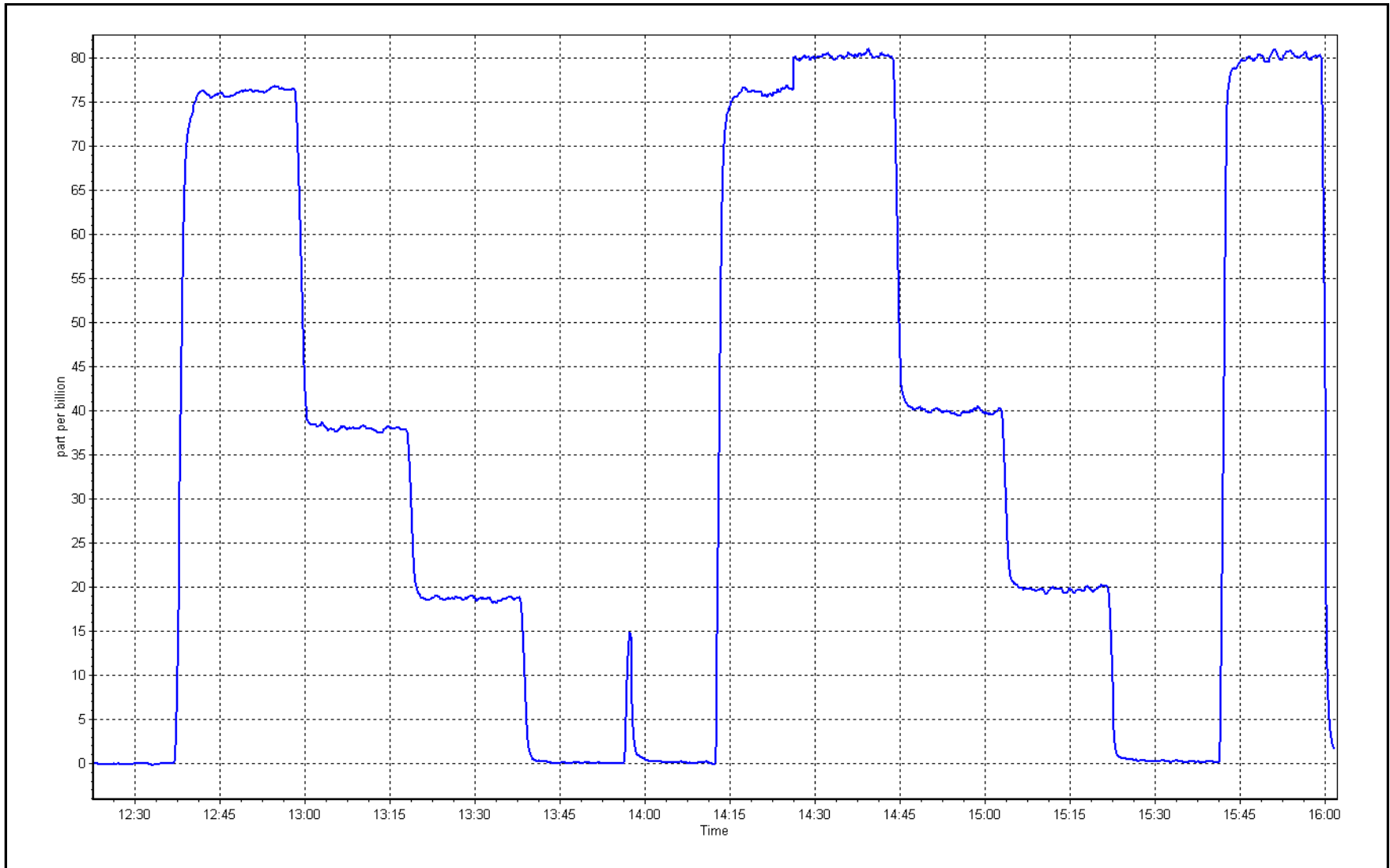
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999990	≥0.995
80.0	80.4	0.9955	Slope	1.005211	0.90 - 1.10
40.0	40.0	0.9993	Intercept	-0.119841	+/-3
20.0	19.9	1.0067			



H₂S Calibration Plot

Date: February 9, 2026

Location: Wapasu





Wood Buffalo Environmental Association

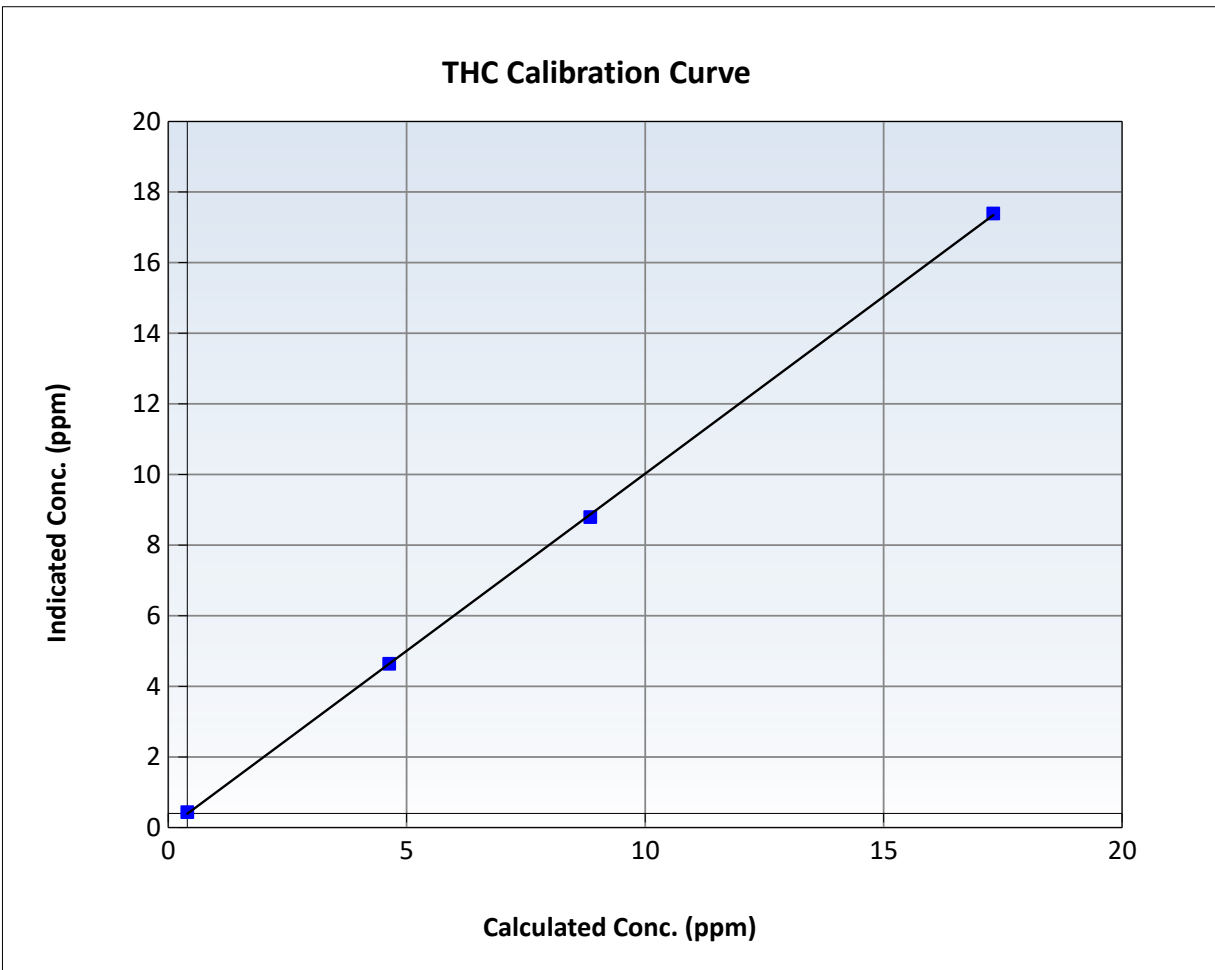
THC Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 12, 2026
Station Name:	Wapasu	Station Number:	AMS17
Start Time (MST):	12:10	End Time (MST):	16:48
Analyzer make:	Thermo 51i-LT	Analyzer serial #:	1218153352

Calibration Data

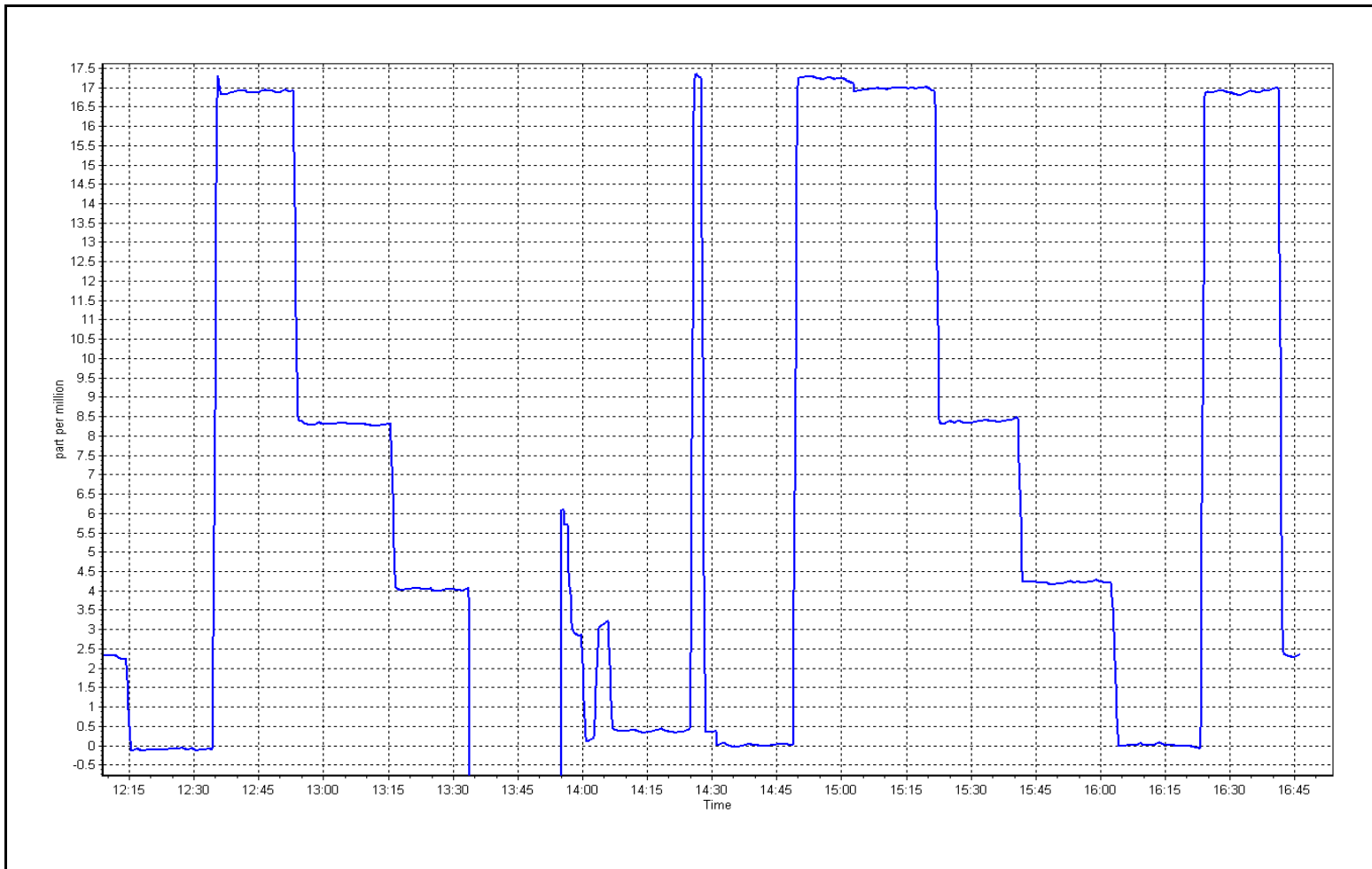
Calculated Concentration (ppm) (Cc)	Indicated Concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.00	0.03	----	Correlation Coefficient	0.999940	≥0.995
16.90	16.99	0.9948	Slope	1.003430	0.90 - 1.10
8.45	8.39	1.0071	Intercept	-0.009349	+/-1.5
4.24	4.24	0.9990			



THC Calibration Plot

Date: February 23, 2026

Location: Wapasu





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NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Wapasu
 Station number: AMS 17
 Calibration Date: February 20, 2026
 Last Cal Date: January 9, 2026
 Start time (MST): 12:03
 End time (MST): 16:46
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0045177
 NOX Cal Gas Conc: 61.30 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 61.30 ppm
 NOX gas Diff:
 Calibrator Model: API T700
 ZAG make/model: API T701H
 Cal Gas Expiry Date: July 19, 2032
 NO Cal Gas Conc: 61.00 ppm
 Removed Gas Exp Date:
 Removed Gas NO Conc: 61.00 ppm
 NO gas Diff:
 Serial Number: 2449
 Serial Number: 359

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.4	0.0	-0.4	----	----
AF High point	4934	65.6	804.3	800.4	3.9	809.5	807.2	2.4	0.9931	0.9916
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 800.8 ppb		NO = 798.9 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = 1.1%	
Baseline Corr 1st pt	NO _x = 809.9 ppb		NO = 807.2 ppb			<u>As Found Statistics</u>		*Percent Change	NO = 1.0%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



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NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo Scientific 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1218153460

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.996876	0.999590
NO _x Cal Offset:	-1.003986	-0.983949
NO Cal Slope:	1.001237	1.000937
NO Cal Offset:	-2.464065	-2.284071
NO ₂ Cal Slope:	0.992858	0.998443
NO ₂ Cal Offset:	-1.281506	-0.074649

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.027	1.018	NO bkgnd or offset:	3.6	3.5
NOX coeff or slope:	0.993	0.997	NOX bkgnd or offset:	4.0	3.9
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	226.4	224.1

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOX concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOX concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOx Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	-0.2	0.1	-0.3	----	----
High point	4934	65.6	804.3	800.4	3.9	803.6	800.2	3.5	1.0009	1.0002
Mid point	4967	32.8	402.1	400.2	2.0	400.0	396.6	3.3	1.0054	1.0090
Low point	4984	16.4	201.0	200.1	1.0	199.6	195.9	3.7	1.0073	1.0213
As left zero	5000	0.0	0.0	0.0	0.0	-0.2	0.1	-0.4	----	----
As left span	4934	65.6	804.3	394.6	409.7	806.8	394.6	412.2	0.9969	1.0000
Average Correction Factor									1.0045	1.0102

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	-0.3	----	----
High GPT point	798.5	393.7	408.7	407.9	1.0021	99.8%
Mid GPT point	798.5	599.7	202.7	202.5	1.0012	99.9%
Low GPT point	798.5	700.7	101.7	101.7	1.0004	100.0%
Average Correction Factor					1.0012	99.9%

Notes:

Span adjusted.

Calibration Performed By:

Aswin Sasi Kumar



Wood Buffalo Environmental Association

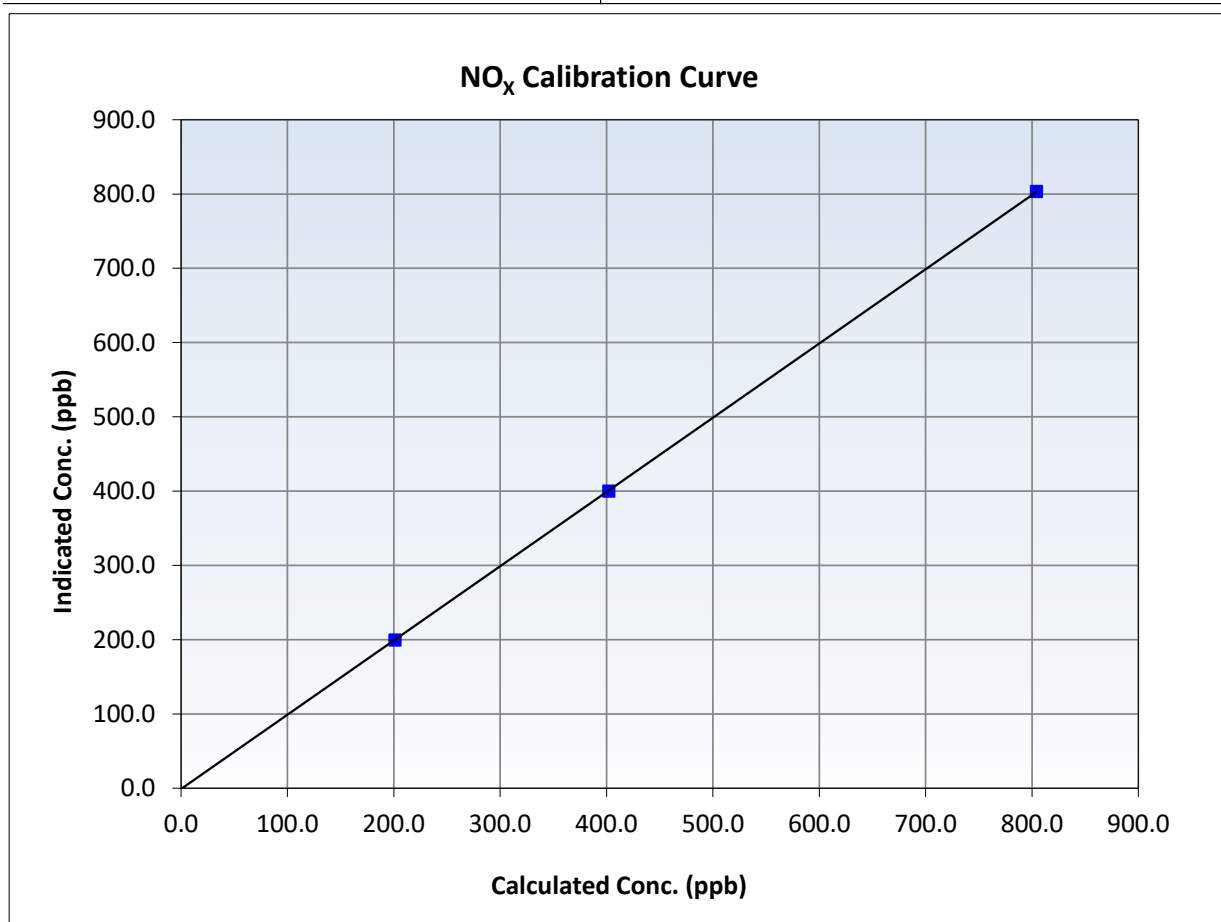
NO_x Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 9, 2026
Station Name:	Wapasu	Station Number:	AMS 17
Start Time (MST):	12:03	End Time (MST):	16:46
Analyzer make:	Thermo Scientific 42i	Analyzer serial #:	1218153460

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.2	----	Correlation Coefficient	0.999994	<i>≥0.995</i>
804.3	803.6	1.0009	Slope	0.999590	<i>0.90 - 1.10</i>
402.1	400.0	1.0054	Intercept	-0.983949	<i>+/-20</i>
201.0	199.6	1.0073			





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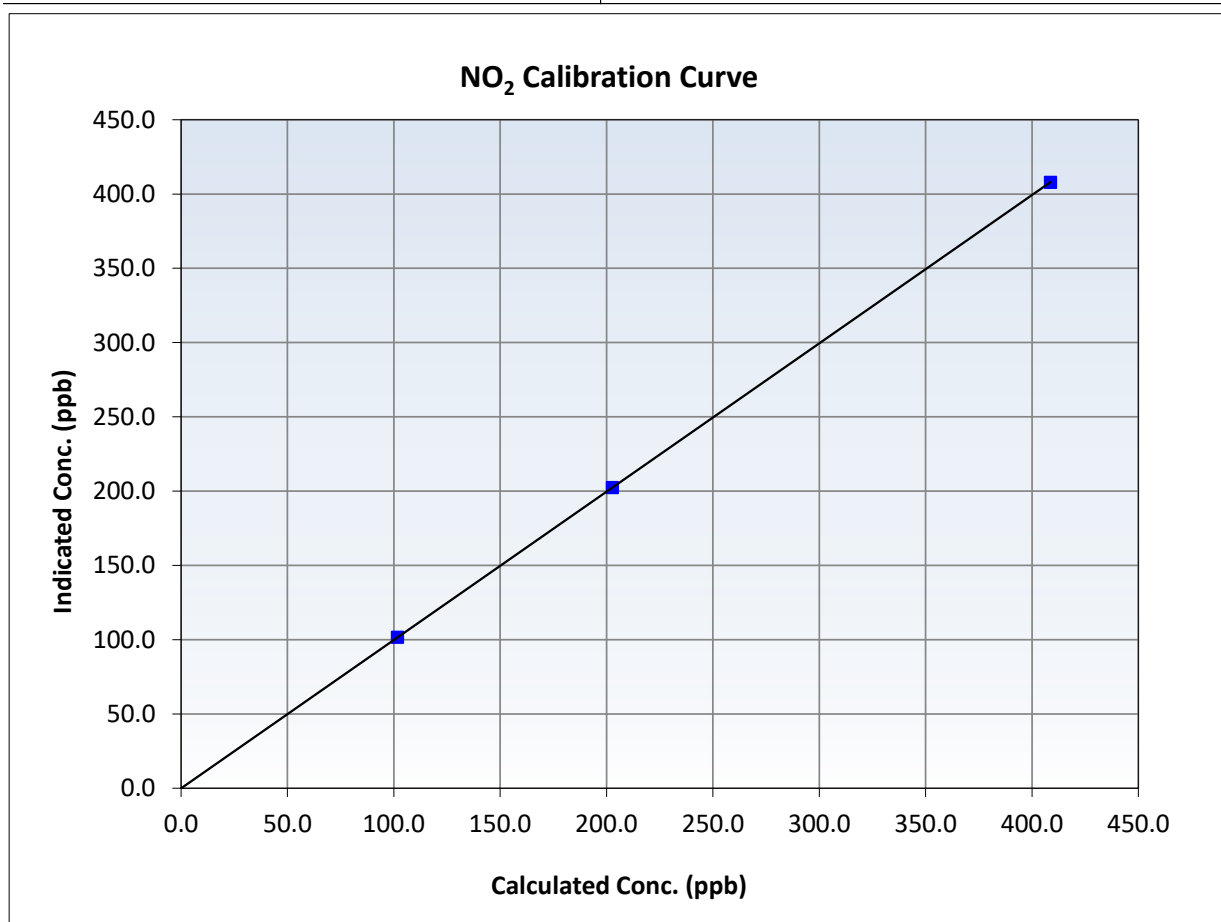
NO₂ Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 9, 2026
Station Name:	Wapasu	Station Number:	AMS 17
Start Time (MST):	12:03	End Time (MST):	16:46
Analyzer make:	Thermo Scientific 42i	Analyzer serial #:	1218153460

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.3	----	Correlation Coefficient	0.999999	<i>≥0.995</i>
408.7	407.9	1.0021	Slope	0.998443	<i>0.90 - 1.10</i>
202.7	202.5	1.0012	Intercept	-0.074649	<i>+/-20</i>
101.7	101.7	1.0004			





Wood Buffalo Environmental Association

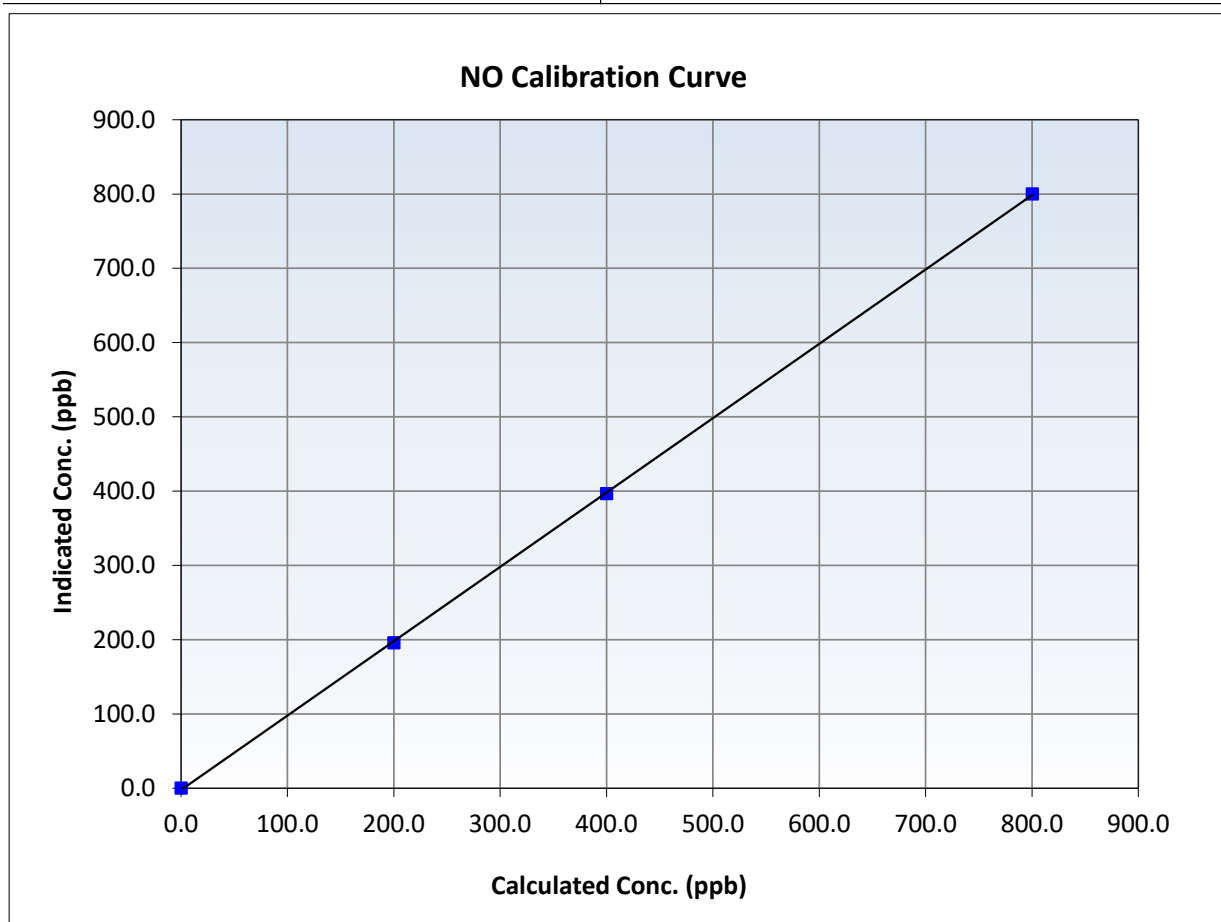
NO Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 9, 2026
Station Name:	Wapasu	Station Number:	AMS 17
Start Time (MST):	12:03	End Time (MST):	16:46
Analyzer make:	Thermo Scientific 42i	Analyzer serial #:	1218153460

Calibration Data

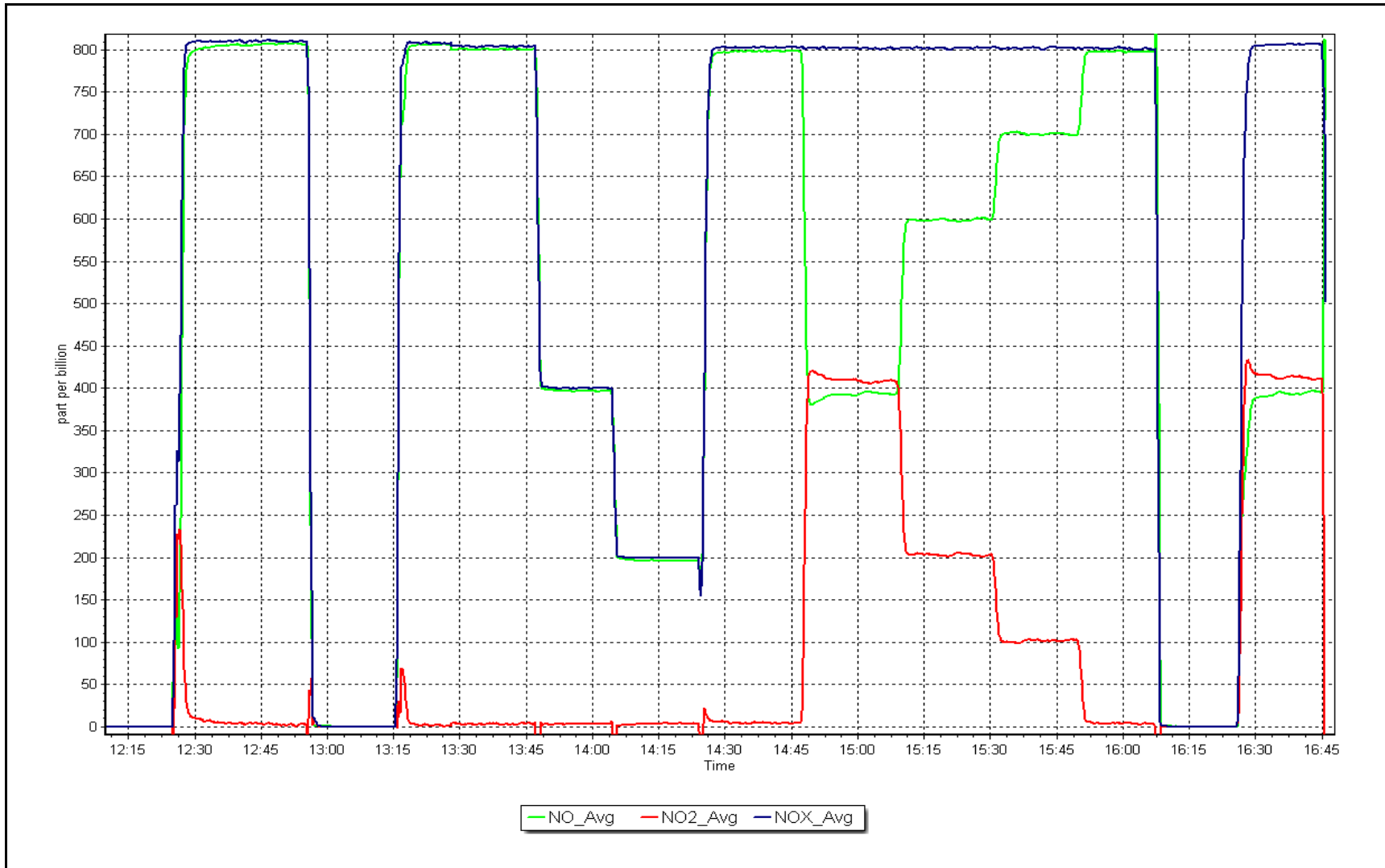
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999959	<i>≥0.995</i>
800.4	800.2	1.0002	Slope	1.000937	<i>0.90 - 1.10</i>
400.2	396.6	1.0090	Intercept	-2.284071	<i>+/-20</i>
200.1	195.9	1.0213			



NO_x Calibration Plot

Date: February 20, 2026

Location: Wapasu





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Wapasu	Station number:	AMS17
Calibration Date:	February 2, 2026	Last Cal Date:	January 5, 2026
Start time (MST):	12:00	End time (MST):	15:02
Reason:	Routine		

Calibration Standards

O3 generation mode:	Photometer	Serial Number:	2449
Calibrator Make/Model:	API T700	Serial Number:	359
ZAG Make/Model:	API T701H		

Analyzer Information

Analyzer make:	Thermo Scientific 49i	Analyzer serial #:	1501663734
Analyzer Range	0 - 500 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.008800	1.001000	Backgd or Offset:	0.1	-0.4
Calibration intercept:	-1.140000	-0.800000	Coeff or Slope:	1.043	1.033

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.4	----
As found High point	5000	1104.7	400.0	401.8	0.995
As found Mid point					
As found Low point					
Baseline Corr As found:	402.2	Previous response	402.4	*% change	0.0%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.1	----
High point	5000	1104.7	400.0	399.9	1.000
Mid point	5000	917.3	200.0	199.4	1.003
Low point	5000	797.9	100.0	98.1	1.019
As left zero	5000	0.0	0.0	0.3	----
As left span	5000	1104.7	400.0	405.0	0.988
Average Correction Factor					1.008

Notes: Zero and span adjusted.

Calibration Performed By: Aswin Sasi Kumar



Wood Buffalo Environmental Association

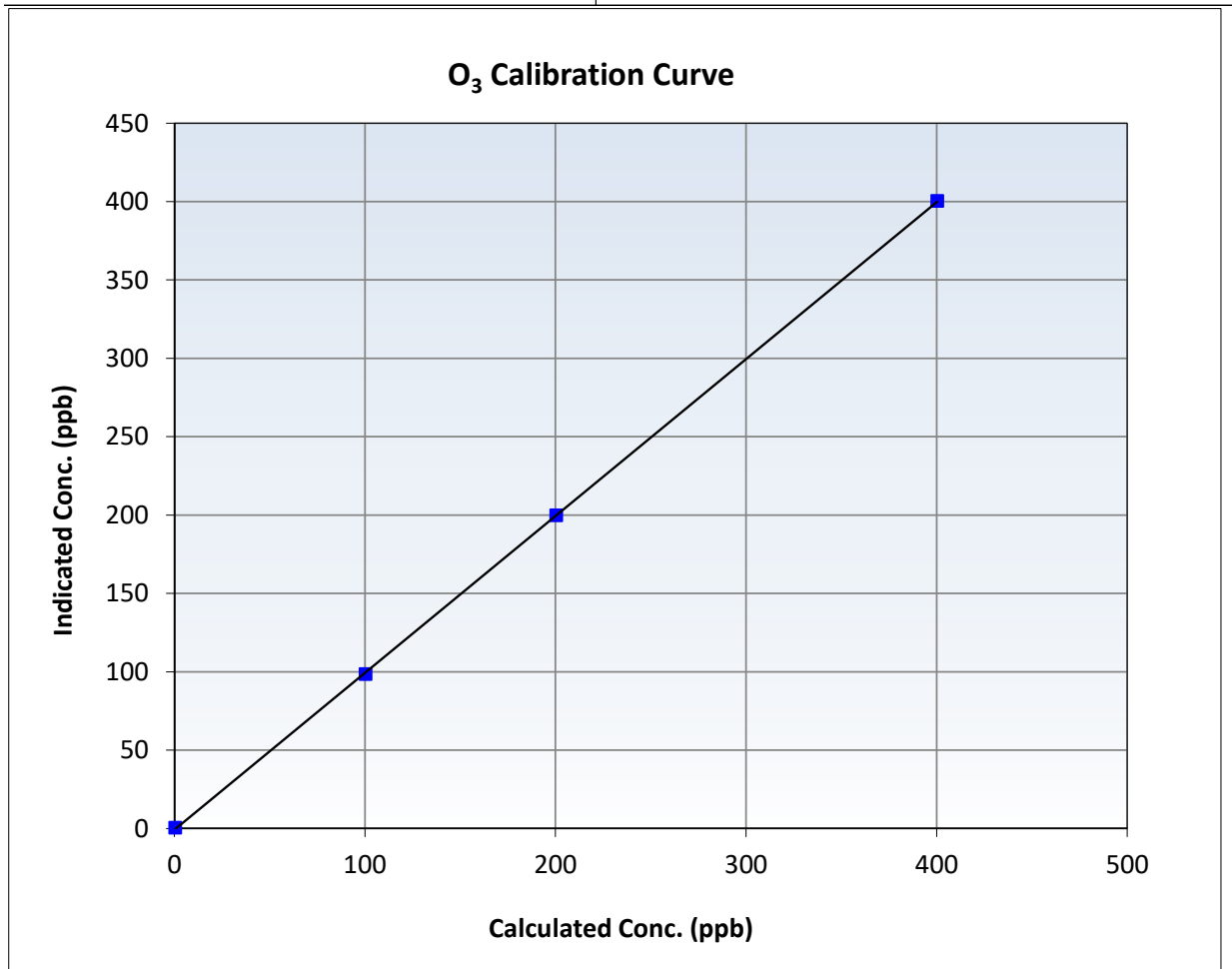
O₃ Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 5, 2026
Station Name:	Wapasu	Station Number:	AMS17
Start Time (MST):	12:00	End Time (MST):	15:02
Analyzer make:	Thermo Scientific 49i	Analyzer serial #:	1501663734

Calibration Data

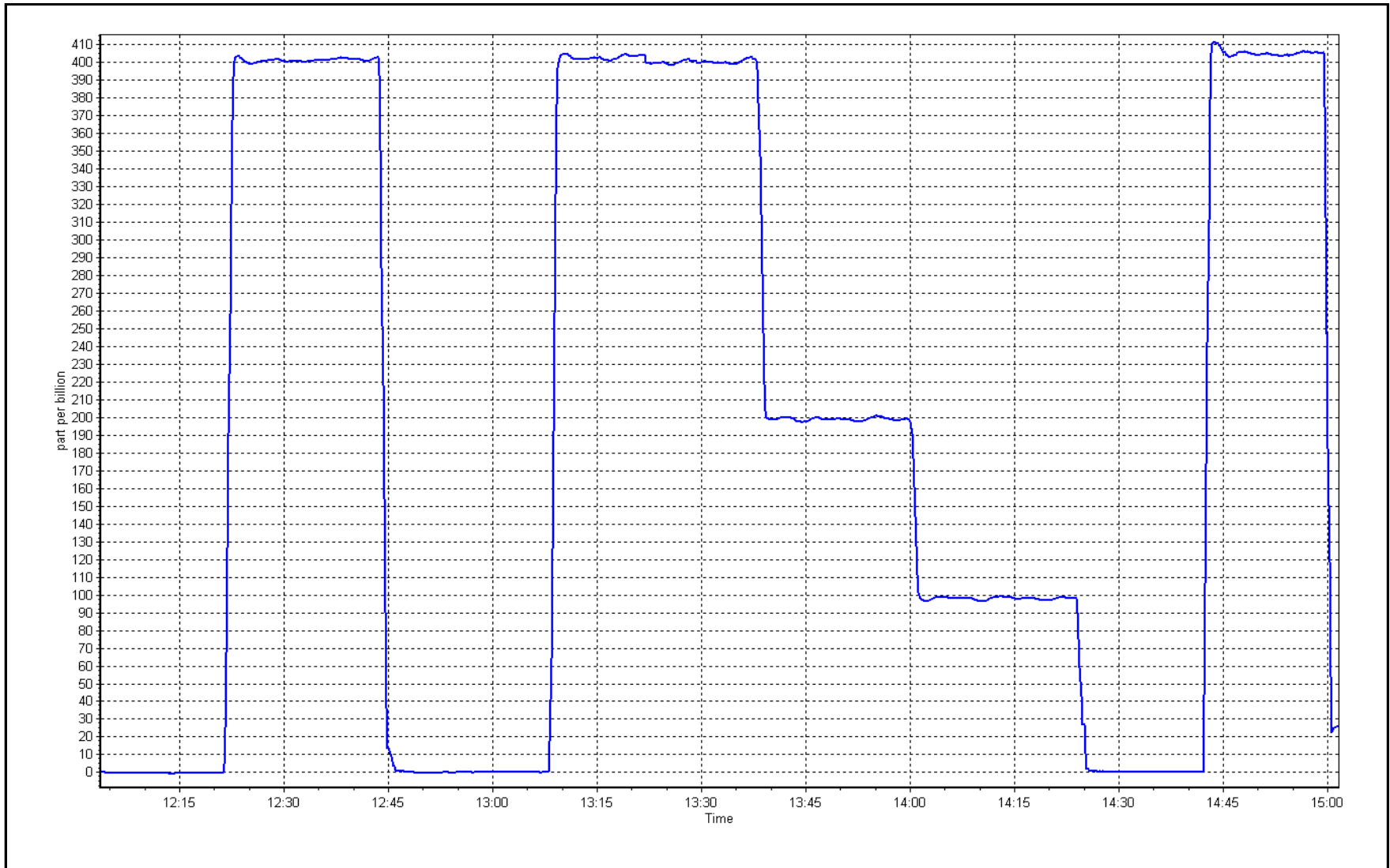
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.1	----	Correlation Coefficient	0.999973	≥0.995
400.0	399.9	1.0003	Slope	1.001000	0.90 - 1.10
200.0	199.4	1.0030	Intercept	-0.800000	+/- 5
100.0	98.1	1.0194			



O₃ Calibration Plot

Date: February 2, 2026

Location: Wapasu





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Wapasu Station number: AMS 17
 Calibration Date: February 23, 2026 Last Cal Date: January 27, 2026
 Start time (MST): 14:22 End time (MST): 15:24

Analyzer Make: Teledyne API T640 S/N: 1183
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388748
 Temp/RH standard: Alicat FP-25BT S/N: 388748

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-16.10	-17.00	-16.10	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	710.40	713.29	710.40	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	4.99	4.97	4.99	<input type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	38	----	38	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	2.50	PM w/ HEPA: _____	0.00	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: **10.9** Expiry Date: October 6, 2024
 Lot No.: 100128-050-042

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test	NA	NA	NA	<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: December 18, 2025
 Date Disposable Filter Changed: December 18, 2025

Post- maintenance Zero Verification: PM w/ HEPA: 0.00 <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: July 21, 2025
 Date RH/T Sensor Cleaned: July 21, 2025

Notes:

Verified flow, pressure, temperature and pump power. No adjustment needed. Leak check passed.

Calibration by: Jason Brooks & Aswin Sasi Kumar



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS18 STONY MOUNTAIN FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Stony Mountain	Station number:	AMS 18
Calibration Date:	February 17, 2026	Last Cal Date:	January 21, 2026
Start time (MST):	12:00	End time (MST):	15:30
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	51.22	ppm	Cal Gas Exp Date:	October 9, 2023
Cal Gas Cylinder #:	CC417455			
Removed Cal Gas Conc:	51.22	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	CC417455		Diff between cyl:	
Calibrator Model:	Teledyne API T700		Serial Number:	2658
Zero Air Gen Model:	Teledyne API 701		Serial Number:	4890

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	JC1501301453
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.998771	1.000443	Backgd or Offset:	25.9	26.2
Calibration intercept:	-1.757425	-0.918009	Coeff or Slope:	0.816	0.824

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4921	78.1	800.2	791.1	1.012
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	791.0	Previous response	797.5	*% change	-0.8%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.5	----
High point	4921	78.1	800.2	800.2	1.000
Mid point	4960	39.1	400.6	399.6	1.003
Low point	4981	19.5	199.7	197.2	1.013
As left zero	5000	0.0	0.0	0.4	----
As left span	4921	78.1	800.2	803.9	0.995
Average Correction Factor:					1.005

Notes: Changed the inlet filter after as founds. Span adjusted.

Calibration Performed By: Devin Russell



Wood Buffalo Environmental Association

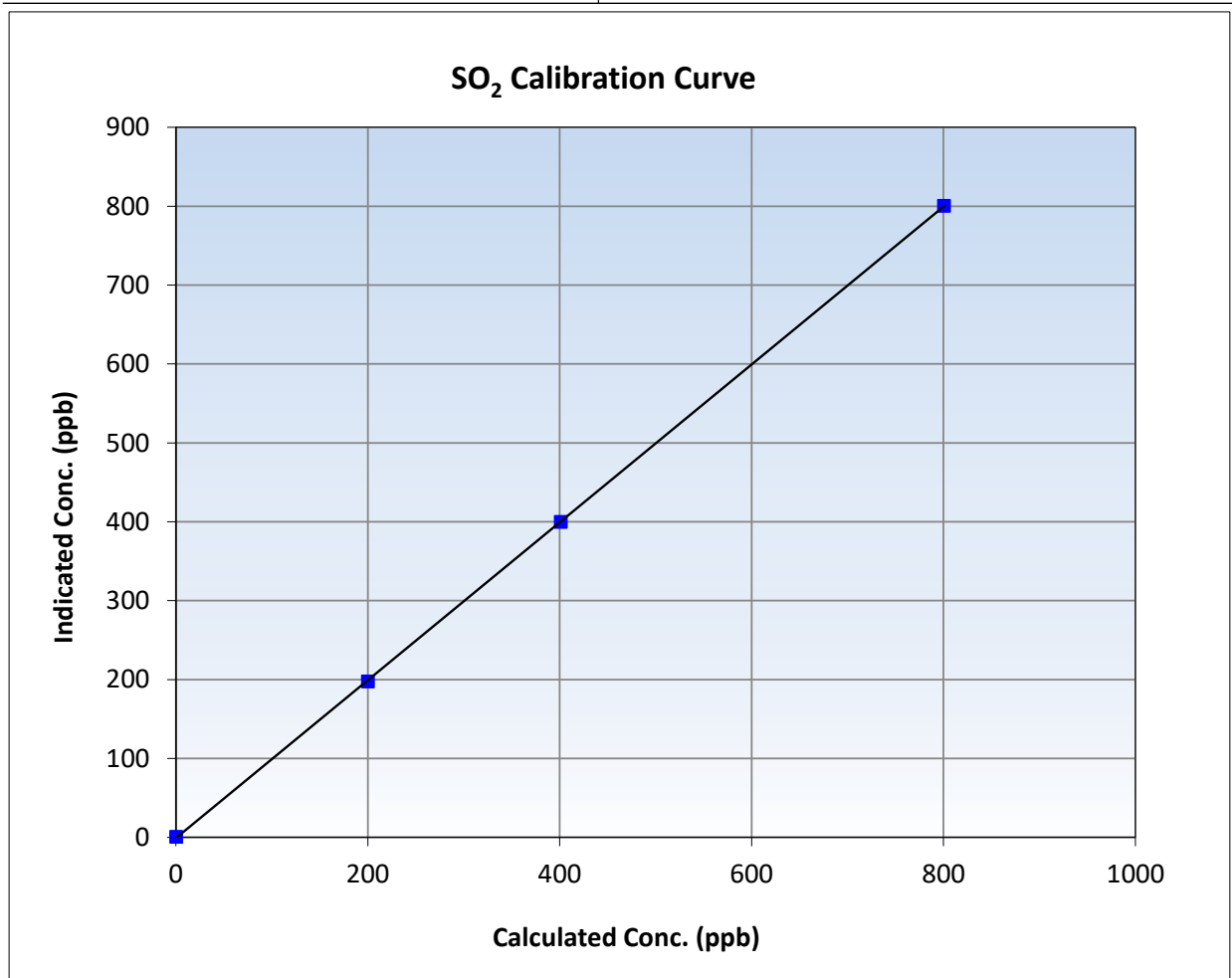
SO₂ Calibration Summary

Station Information

Calibration Date:	February 17, 2026	Previous Calibration:	January 21, 2026
Station Name:	Stony Mountain	Station Number:	AMS 18
Start Time (MST):	12:00	End Time (MST):	15:30
Analyzer make:	Thermo 43i	Analyzer serial #:	JC1501301453

Calibration Data

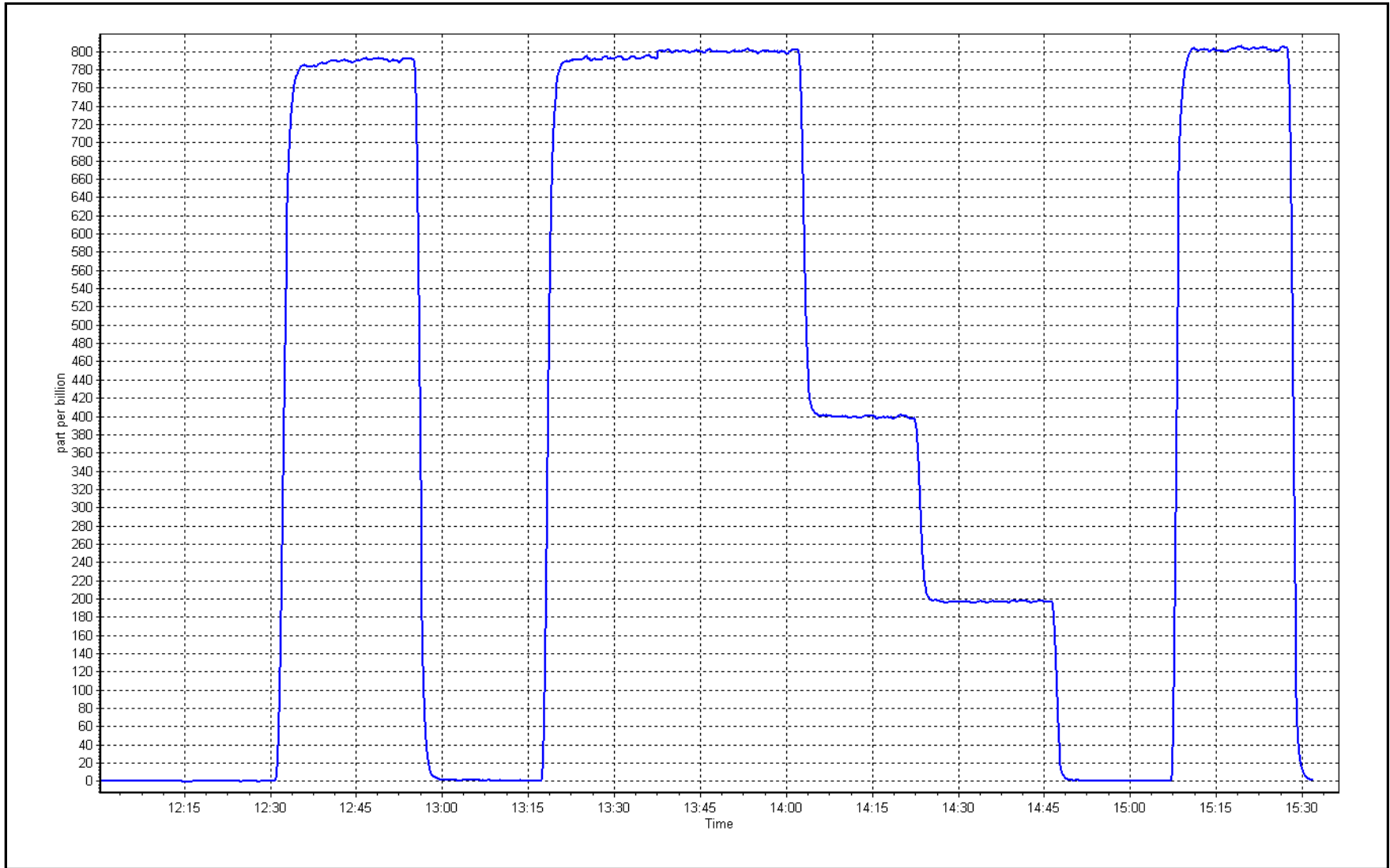
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.5	----	Correlation Coefficient	0.999985	≥0.995
800.2	800.2	1.0000	Slope	1.000443	0.90 - 1.10
400.6	399.6	1.0025	Intercept	-0.918009	+/-30
199.7	197.2	1.0129			



SO2 Calibration Plot

Date: February 17, 2026

Location: Stony Mountain





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name:	Stony Mountain	Station number:	AMS18
Calibration Date:	February 12, 2026	Last Cal Date:	January 20, 2026
Start time (MST):	12:01	End time (MST):	16:48
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.86	ppm	Cal Gas Exp Date:	May 9, 2027
Cal Gas Cylinder #:	CC523103			
Removed Cal Gas Conc:	4.86	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:			Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700		Serial Number:	2658
ZAG Make/Model:	Teledyne API T701		Serial Number:	4890

Analyzer Information

Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1218153359
Converter make:	CD Nova CDN-101	Converter serial #:	555
Analyzer Range	0 - 100 ppb	Converter Temp:	800 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.000225	0.996798	Backgd or Offset:	2.90	2.86
Calibration intercept:	0.121022	0.041041	Coeff or Slope:	1.190	1.159

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4917	82.3	80.0	83.0	0.965
As found Mid point	4958	41.2	40.1	41.7	0.963
As found Low point	4979	20.6	20.0	20.6	0.977
New cylinder response					
Baseline Corr As found:	82.9	Prev response:	80.15	*% change:	3.3%
Baseline Corr 2nd AF pt:	41.6	AF Slope:	1.037370	AF Intercept:	0.020143
Baseline Corr 3rd AF pt:	20.5	AF Correlation:	0.999984	<i>* = > +/-5% change initiates investigation</i>	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.3	----
High point	4917	82.3	80.0	79.9	1.001
Mid point	4958	41.2	40.1	39.9	1.004
Low point	4979	20.6	20.0	19.7	1.016
As left zero	5000	0.0	0.0	0.3	----
As left span	4917	82.3	80.0	79.8	1.003
SO2 Scrubber Check	4923	77.1	771.0	0.0	----
Date of last scrubber change:		17-Dec-21		Ave Corr Factor	1.007
Date of last converter efficiency test:					

Notes: Span adjusted.

Calibration Performed By: Aswin Sasi Kumar



Wood Buffalo Environmental Association

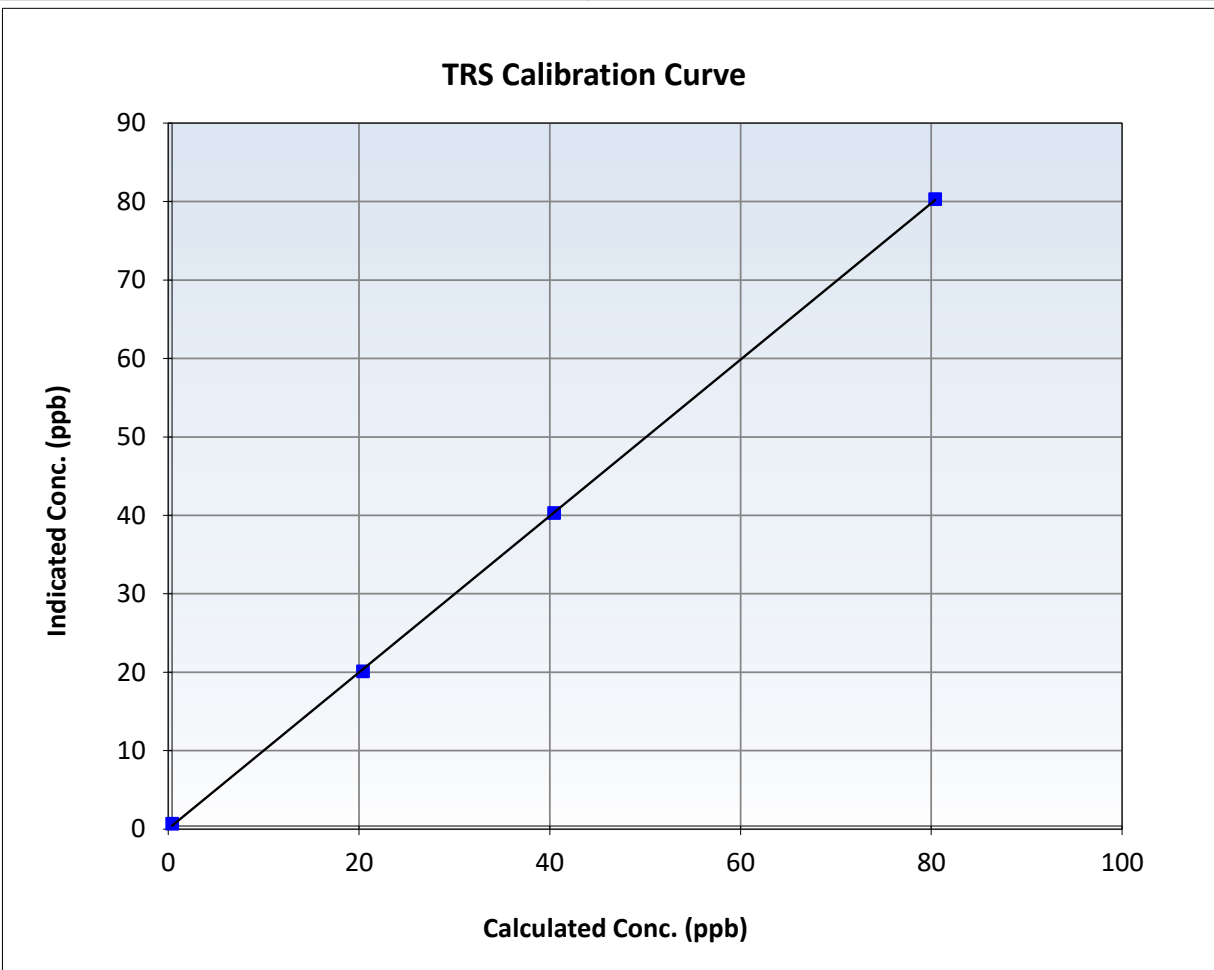
TRS Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 20, 2026
Station Name:	Stony Mountain	Station Number:	AMS18
Start Time (MST):	12:01	End Time (MST):	16:48
Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1218153359

Calibration Data

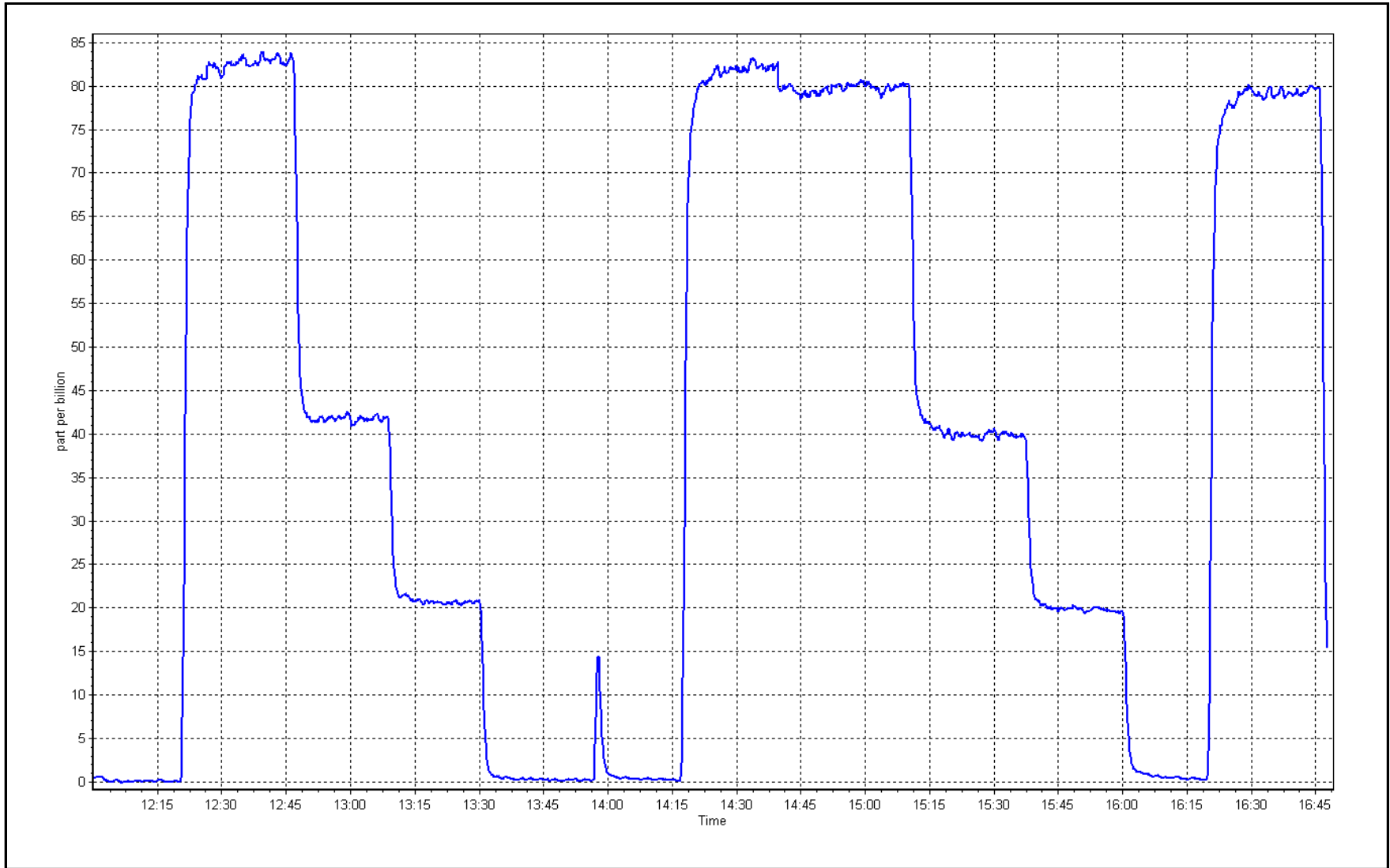
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.3	----	Correlation Coefficient	0.999950	≥ 0.995
80.0	79.9	1.0013	Slope	0.996798	$0.90 - 1.10$
40.1	39.9	1.0038	Intercept	0.041041	± 3
20.0	19.7	1.0165			



TRS Calibration Plot

Date: February 12, 2026

Location: Stony Mountain





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Stony Mountain	Station number:	AMS 18
Calibration Date:	February 17, 2026	Last Cal Date:	January 21, 2026
Start time (MST):	12:00	End time (MST):	15:30
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	XC026809B	Cal Gas Expiry Date:	January 12, 2029
CH4 Cal Gas Conc.	504.9 ppm	CH4 Equiv Conc.	1076.6 ppm
C3H8 Cal Gas Conc.	207.9 ppm		
Removed Gas Cert:	NA	Removed Gas Expiry:	NA
Removed CH4 Conc.	504.9 ppm	CH4 Equiv Conc.	1076.6 ppm
Removed C3H8 Conc.	207.9 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700	Serial Number:	2658
Zero Air Gen model:	Teledyne API T701	Serial Number:	4890

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1170050130
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.71E-04	3.02E-04	5.04E-05	5.35E-05
CH4 Retention time:	15.2	15.4	177167	166981
Zero Chromatogram:	OFF	OFF	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.02	----
As found High point	4921	78.1	16.82	16.15	1.043
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.13	Prev response	16.79	*% change	-4.1%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.02	----
High point	4921	78.1	16.82	17.05	0.986
Mid point	4960	39.1	8.42	8.60	0.979
Low point	4981	19.5	4.20	4.30	0.976
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	78.1	16.82	17.38	0.968
Average Correction Factor					0.980

Notes: H2 cylinder changed after as founds. Span adjusted.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	78.1	8.93	8.61	1.037
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.61	Prev response	8.92	*% change	-3.6%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	78.1	8.93	9.06	0.986
Mid point	4960	39.1	4.47	4.57	0.979
Low point	4981	19.5	2.23	2.28	0.977
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	78.1	8.93	9.21	0.970
Average Correction Factor					0.981

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.02	----
As found High point	4921	78.1	7.89	7.54	1.049
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.52	Prev response	7.87	*% change	-4.6%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.02	----
High point	4921	78.1	7.89	8.00	0.986
Mid point	4960	39.1	3.95	4.04	0.979
Low point	4981	19.5	1.97	2.02	0.974
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	78.1	7.89	8.17	0.965
Average Correction Factor					0.980

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.999241	1.012531
THC Cal Offset:	-0.020925	0.040262
CH ₄ Cal Slope:	0.998292	1.011679
CH ₄ Cal Offset:	-0.007579	0.025217
NMHC Cal Slope:	1.000284	1.013412
NMHC Cal Offset:	-0.013146	0.015045

Calibration Performed By: Devin Russell



Wood Buffalo Environmental Association

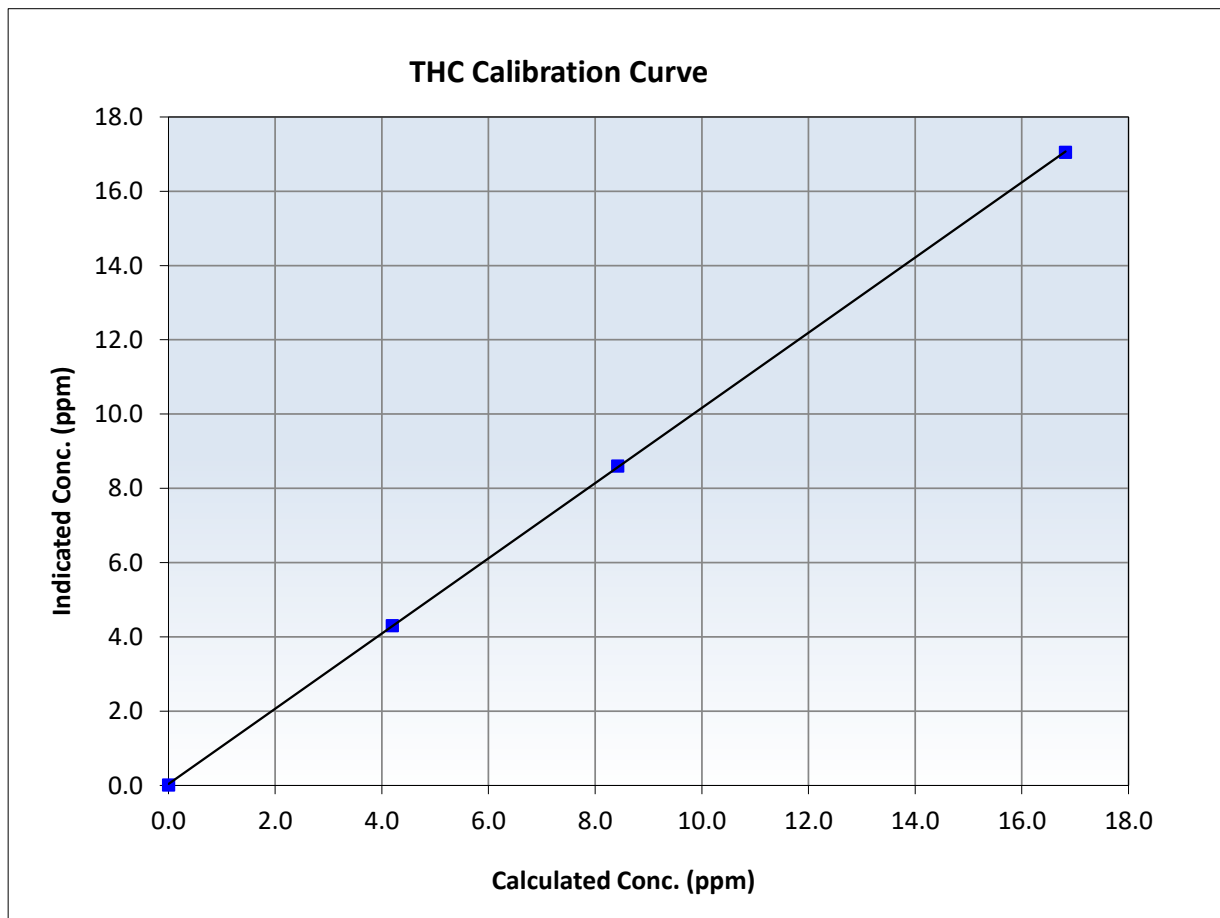
THC Calibration Summary

Station Information

Calibration Date:	February 17, 2026	Previous Calibration:	January 21, 2026
Station Name:	Stony Mountain	Station Number:	AMS 18
Start Time (MST):	12:00	End Time (MST):	15:30
Analyzer make:	Thermo 55i	Analyzer serial #:	1170050130

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.02	----	Correlation Coefficient	0.999985	<i>≥0.995</i>
16.82	17.05	0.9864	Slope	1.012531	<i>0.90 - 1.10</i>
8.42	8.60	0.9790	Intercept	0.040262	<i>+/-0.5</i>
4.20	4.30	0.9759			





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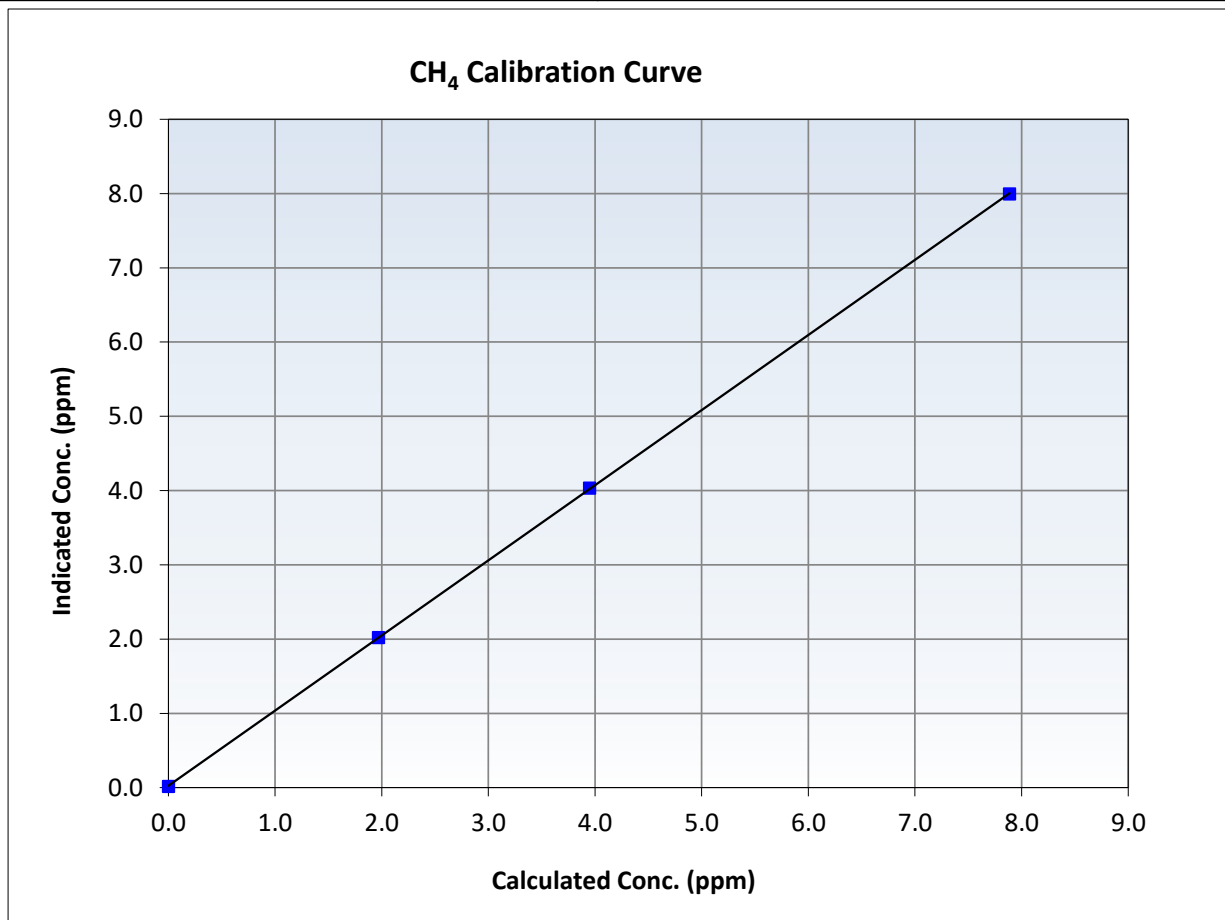
CH₄ Calibration Summary

Station Information

Calibration Date:	February 17, 2026	Previous Calibration:	January 21, 2026
Station Name:	Stony Mountain	Station Number:	AMS 18
Start Time (MST):	12:00	End Time (MST):	15:30
Analyzer make:	Thermo 55i	Analyzer serial #:	1170050130

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.02	----	Correlation Coefficient	0.999988	<i>≥0.995</i>
7.89	8.00	0.9864	Slope	1.011679	<i>0.90 - 1.10</i>
3.95	4.04	0.9787	Intercept	0.025217	<i>+/-0.5</i>
1.97	2.02	0.9742			





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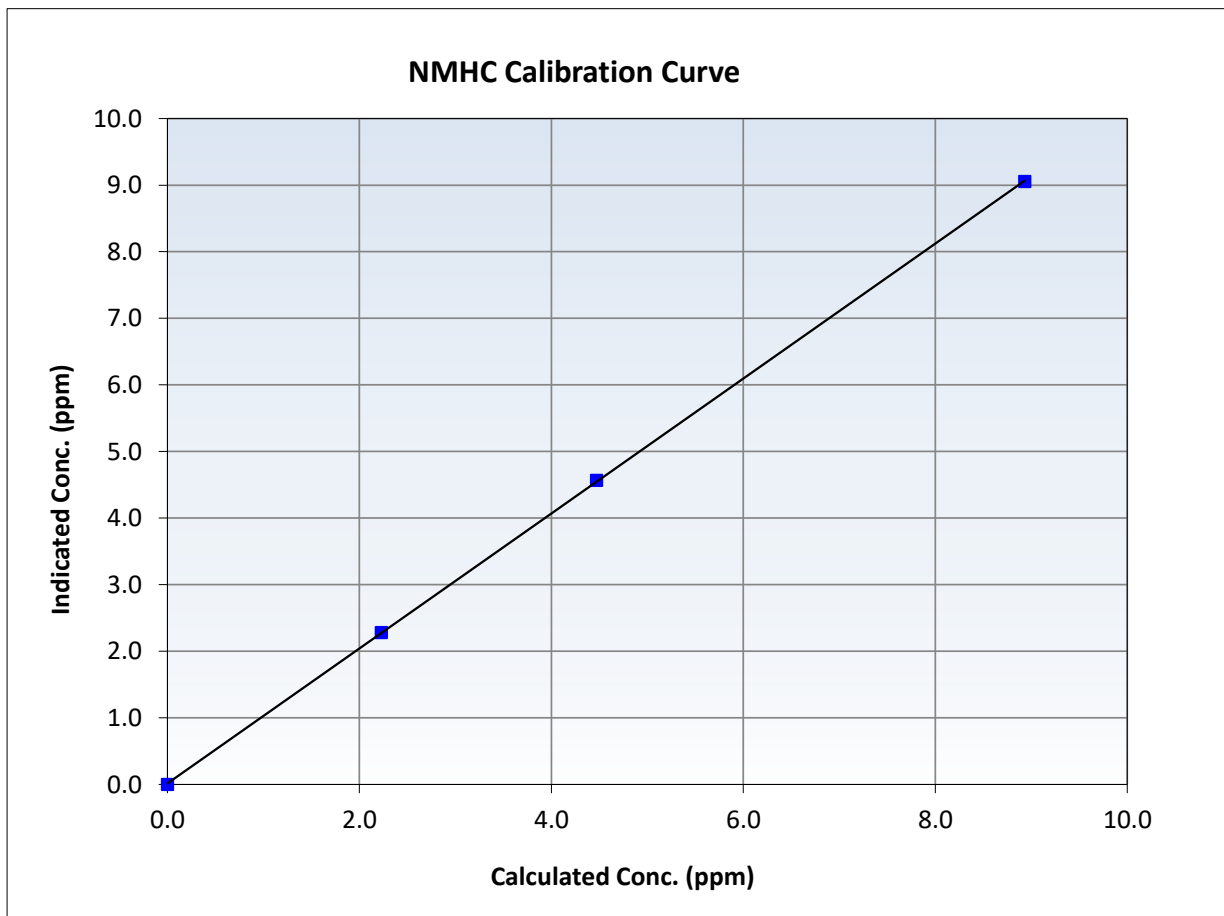
NMHC Calibration Summary

Station Information

Calibration Date:	February 17, 2026	Previous Calibration:	January 21, 2026
Station Name:	Stony Mountain	Station Number:	AMS 18
Start Time (MST):	12:00	End Time (MST):	15:30
Analyzer make:	Thermo 55i	Analyzer serial #:	1170050130

Calibration Data

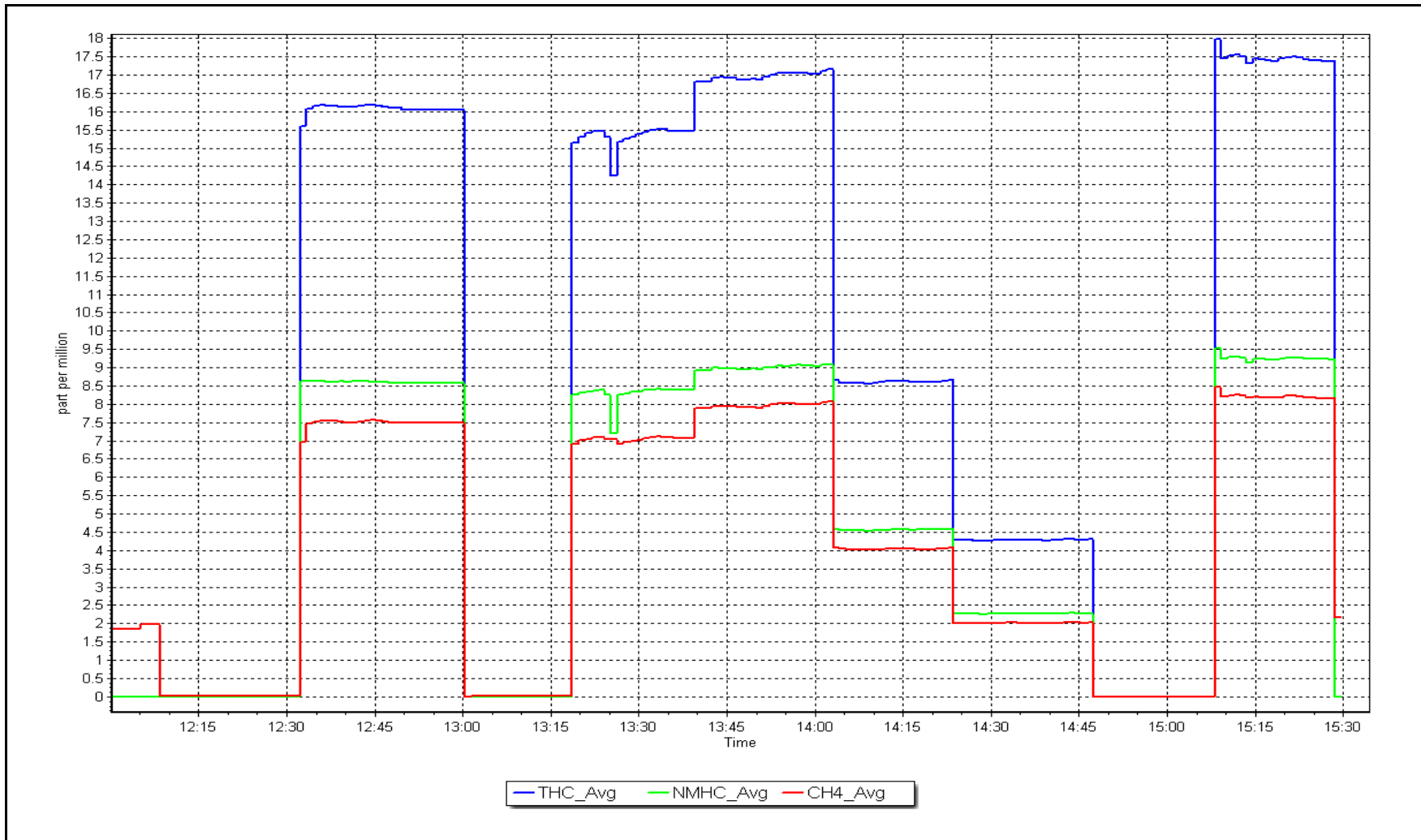
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999982	<i>≥0.995</i>
8.93	9.06	0.9864	Slope	1.013412	<i>0.90 - 1.10</i>
4.47	4.57	0.9791	Intercept	0.015045	<i>+/-0.5</i>
2.23	2.28	0.9774			



NMHC Calibration Plot

Date: February 17, 2026

Location: Stony Mountain





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Stony Mountain
 Station number: AMS 18
 Calibration Date: February 25, 2026
 Last Cal Date: January 26, 2026
 Start time (MST): 12:24
 End time (MST): 17:15
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0045516
 NOX Cal Gas Conc: 60.30 ppm
 Removed Cylinder #: N/A
 Removed Gas NOX Conc: 60.30 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API 701
 Cal Gas Expiry Date: November 17, 2026
 NO Cal Gas Conc: 60.10 ppm
 Removed Gas Exp Date: N/A
 Removed Gas NO Conc: 60.10 ppm
 NO gas Diff:
 Serial Number: 2658
 Serial Number: 4890

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.1	0.0	0.1	----	----
AF High point	4933	66.6	803.3	800.6	2.7	806.0	802.0	4.1	0.9967	0.9982
AF Mid point										
AF Low point										
New cyl resp										
Previous Respo 4933	NO _x = 800.1 ppb	NO = 797.3 ppb	<i>* = > +/-5% change initiates investigation</i>				*Percent Change	NO _x = 0.7%		
Baseline Corr 1st pt	NO _x = 805.9 ppb	NO = 802.0 ppb	<u>As Found Statistics</u>				*Percent Change	NO = 0.6%		
Baseline Corr 2nd pt	NO _x = NA ppb	NO = NA ppb	As found	NO _x r ² :		Nx SI:	Nx Int:			
Baseline Corr 3rd pt	NO _x = NA ppb	NO = NA ppb	As found	NO r ² :		NO SI:	NO Int:			
			As found	NO ₂ r ² :		NO ₂ SI:	NO ₂ Int:			

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo Scientific 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1501663731

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.997644	0.999038
NO _x Cal Offset:	-1.308803	-1.148638
NO Cal Slope:	0.999224	0.999136
NO Cal Offset:	-2.649880	-1.469171
NO ₂ Cal Slope:	1.004639	0.995554
NO ₂ Cal Offset:	-0.226181	-0.588253

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.107	1.103	NO bkgnd or offset:	11.0	10.9
NOX coeff or slope:	1.000	1.000	NOX bkgnd or offset:	11.1	11.0
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	221.0	215.1

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOx concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOx concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOx Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.2	0.0	0.2	----	----
High point	4933	66.6	803.3	800.6	2.7	802.0	799.5	2.4	1.0016	1.0014
Mid point	4967	33.3	401.6	400.2	1.3	399.4	396.7	2.6	1.0054	1.0089
Low point	4983	16.6	200.2	199.5	0.7	197.5	197.1	2.5	1.0137	1.0124
As left zero	5000	0.0	0.0	0.0	0.0	0.3	0.1	0.1	----	----
As left span	4933	66.6	803.3	388.4	414.9	803.0	388.4	414.7	1.0003	1.0000
Average Correction Factor									1.0069	1.0076

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.2	----	----
High GPT point	799.5	384.6	417.6	415.5	1.0050	99.5%
Mid GPT point	799.5	595.8	206.4	204.5	1.0091	99.1%
Low GPT point	799.5	697.4	104.8	102.9	1.0181	98.2%
Average Correction Factor					1.0107	98.9%

Notes:

Sample inlet filter changed out, span adjusted.

Calibration Performed By:

Aswin Sasi Kumar



Wood Buffalo Environmental Association

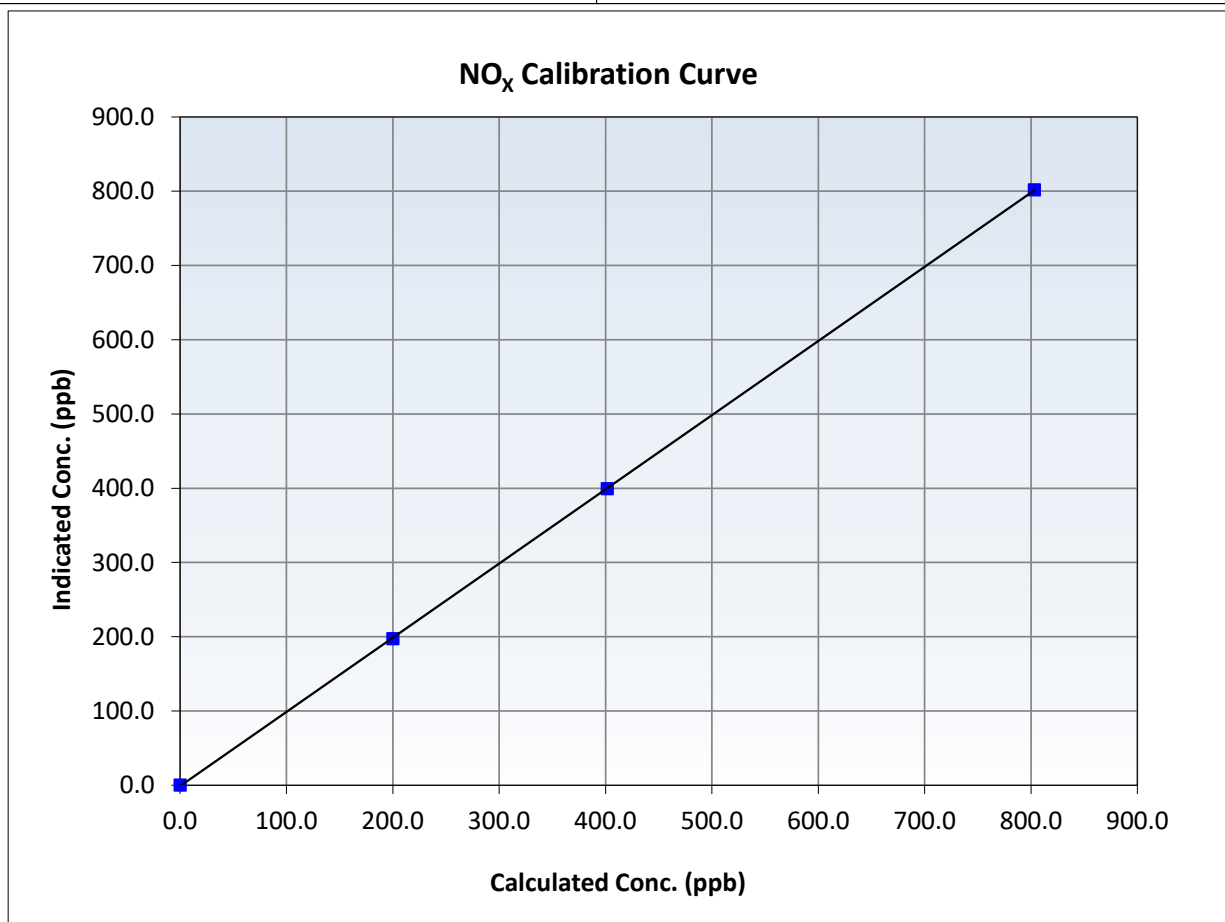
NO_x Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 26, 2026
Station Name:	Stony Mountain	Station Number:	AMS 18
Start Time (MST):	12:24	End Time (MST):	17:15
Analyzer make:	Thermo Scientific 42i	Analyzer serial #:	1501663731

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999987	<i>≥0.995</i>
803.3	802.0	1.0016	Slope	0.999038	<i>0.90 - 1.10</i>
401.6	399.4	1.0054	Intercept	-1.148638	<i>+/-20</i>
200.2	197.5	1.0137			





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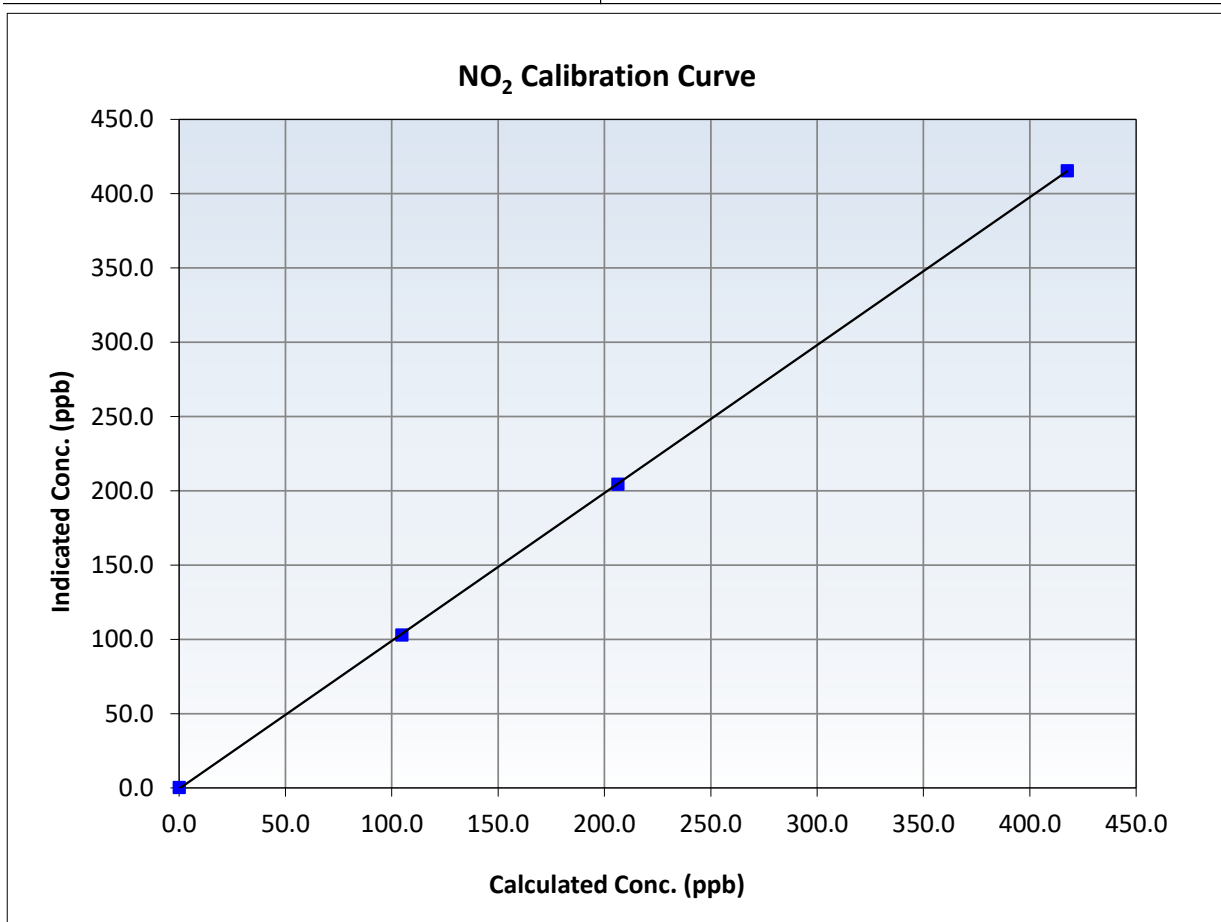
NO₂ Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 26, 2026
Station Name:	Stony Mountain	Station Number:	AMS 18
Start Time (MST):	12:24	End Time (MST):	17:15
Analyzer make:	Thermo Scientific 42i	Analyzer serial #:	1501663731

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999984	<i>≥0.995</i>
417.6	415.5	1.0050	Slope	0.995554	<i>0.90 - 1.10</i>
206.4	204.5	1.0091	Intercept	-0.588253	<i>+/-20</i>
104.8	102.9	1.0181			





Wood Buffalo Environmental Association

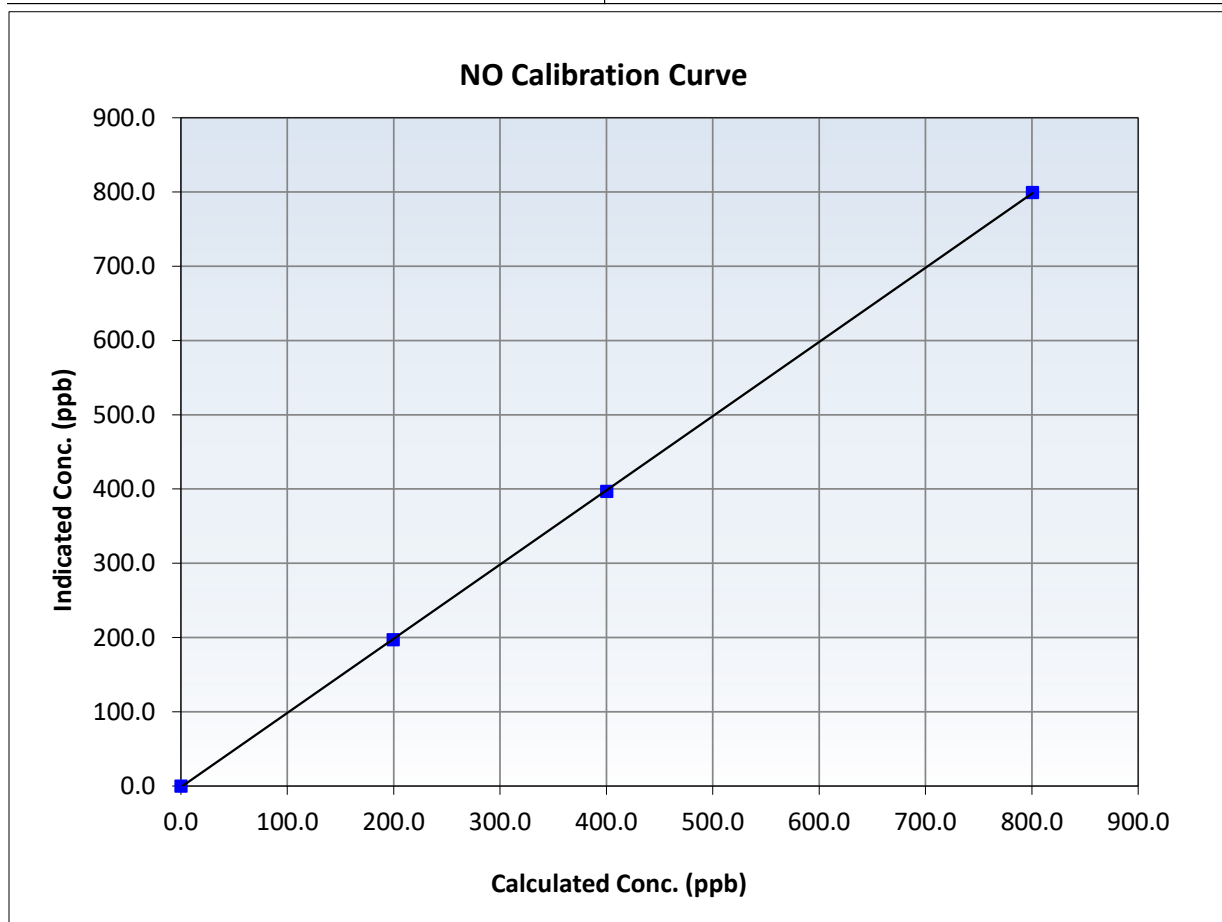
NO Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 26, 2026
Station Name:	Stony Mountain	Station Number:	AMS 18
Start Time (MST):	12:24	End Time (MST):	17:15
Analyzer make:	Thermo Scientific 42i	Analyzer serial #:	1501663731

Calibration Data

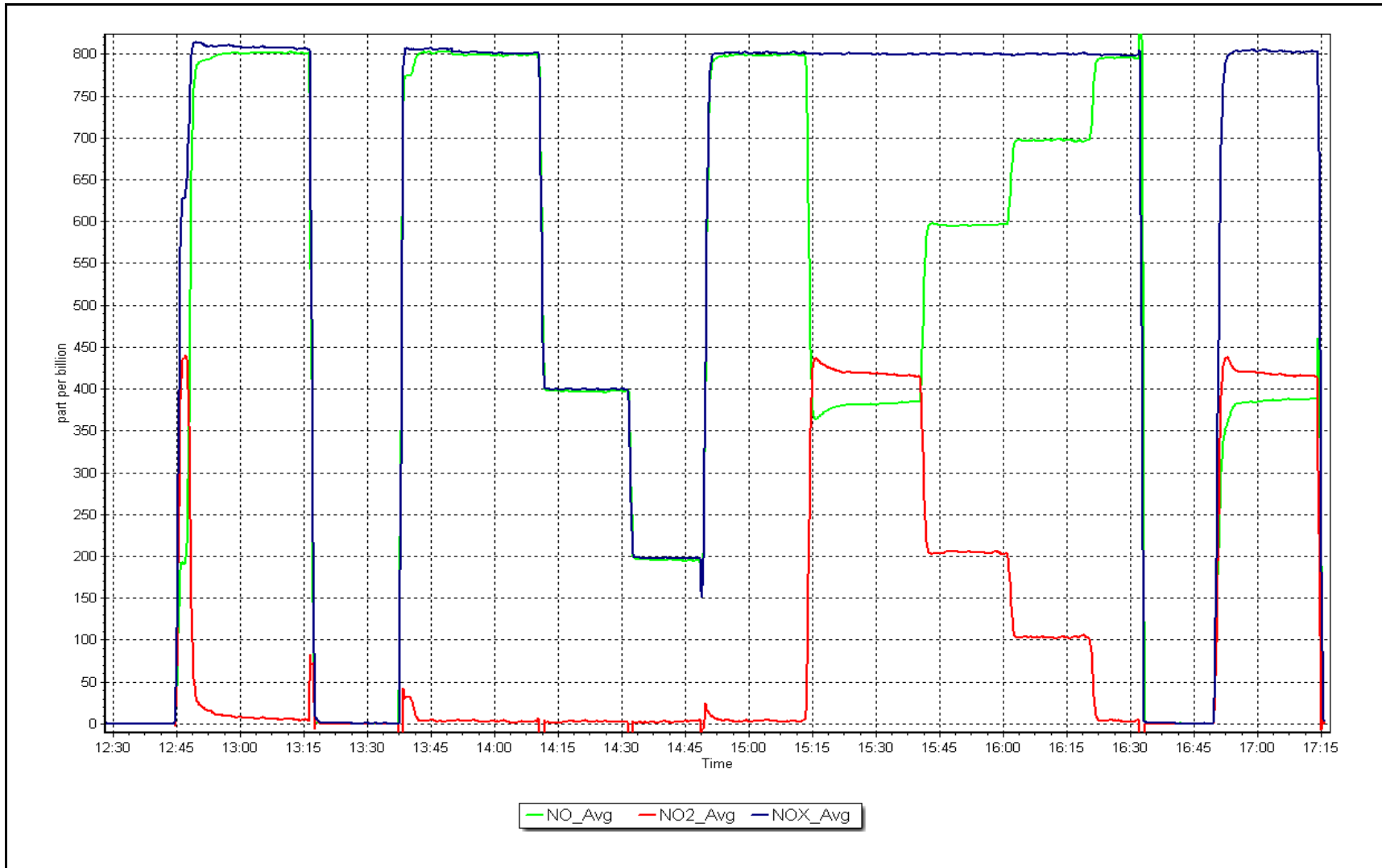
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999980	<i>≥0.995</i>
800.6	799.5	1.0014	Slope	0.999136	<i>0.90 - 1.10</i>
400.2	396.7	1.0089	Intercept	-1.469171	<i>+/-20</i>
199.5	197.1	1.0124			



NO_x Calibration Plot

Date: February 25, 2026

Location: Stony Mountain





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Stony Mountain	Station number:	AMS 18
Calibration Date:	February 10, 2026	Last Cal Date:	January 13, 2026
Start time (MST):	12:35	End time (MST):	15:42
Reason:	Routine		

Calibration Standards

O3 generation mode:	Photometer	Serial Number:	2658
Calibrator Make/Model:	Teledyne API T700	Serial Number:	4890
ZAG Make/Model:	Teledyne API 701H		

Analyzer Information

Analyzer make:	API T400	Analyzer serial #:	825
Analyzer Range	0 - 500 ppb		

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Calibration slope:	0.999314	0.994743	Backgd or Offset:	3.1
Calibration intercept:	0.720000	0.520000	Coeff or Slope:	1.023

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	NA	0.0	-0.3	----
As found High point	4888	1141.2	400.0	400.4	0.998
As found Mid point					
As found Low point					
Baseline Corr As found:	400.7	Previous response	400.4	*% change	0.1%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	NA	0.0	0.2	----
High point	4888	1138.1	400.0	398.1	1.005
Mid point	4888	884.5	200.0	200.1	1.000
Low point	4888	741.4	100.0	100.0	1.000
As left zero	5000	NA	0.0	0.2	----
As left span	4812	1097.9	400.0	400.8	0.998
Average Correction Factor					1.001

Notes: No adjustments made.

Calibration Performed By: Aswin Sasi Kumar



Wood Buffalo Environmental Association

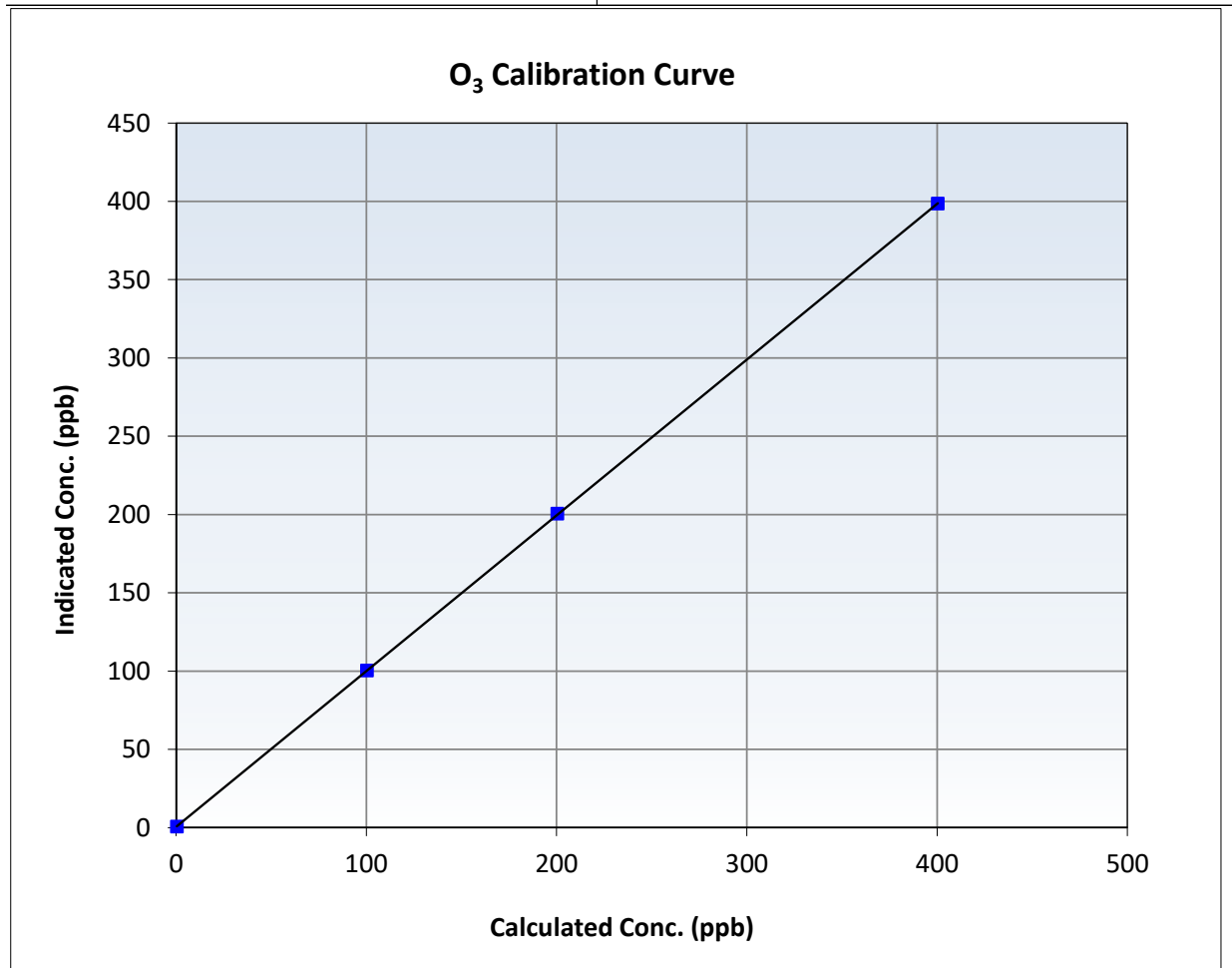
O₃ Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 13, 2026
Station Name:	Stony Mountain	Station Number:	AMS 18
Start Time (MST):	12:35	End Time (MST):	15:42
Analyzer make:	API T400	Analyzer serial #:	825

Calibration Data

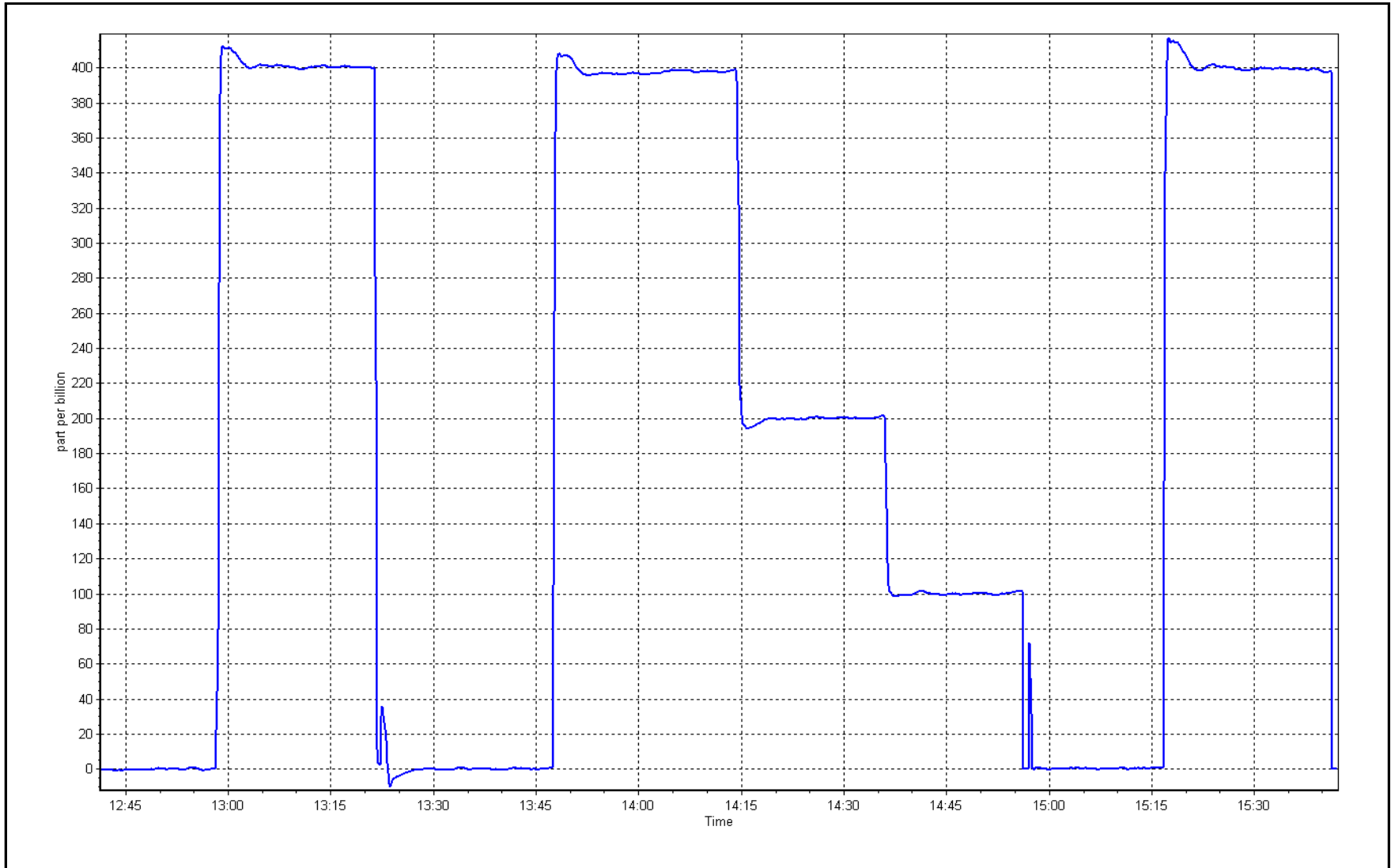
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.2	----	Correlation Coefficient	0.999993	≥0.995
400.0	398.1	1.0048	Slope	0.994743	0.90 - 1.10
200.0	200.1	0.9995	Intercept	0.520000	+/- 5
100.0	100.0	1.0000			



O₃ Calibration Plot

Date: February 10, 2026

Location: Stony Mountain





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Stony Mountain Station number: AMS 18
 Calibration Date: February 25, 2026 Last Cal Date: January 26, 2026
 Start time (MST): 16:07 End time (MST): 16:39

Analyzer Make: API T640 S/N: 324
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388748
 Temp/RH standard: Alicat FP-25BT S/N: 388748

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-0.1	-0.8	-0.1	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	685.6	683.90	685.6	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	4.99	4.95	4.99	<input type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	46	----	46	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	2.1	PM w/ HEPA: _____	0.0	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: 10.9 Expiry Date: October 10, 2024
 Lot No.: 100128-050-042

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test	N/A	N/A	N/A	<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: January 26, 2026
 Date Disposable Filter Changed: February 25, 2026

Post- maintenance Zero Verification: PM w/ HEPA: _____ <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: September 23, 2025
 Date RH/T Sensor Cleaned: September 23, 2025

Notes: Flow, pressure and temp checked. Leak check done. DFU filter changed out.

Calibration by: Aswin Sasi Kumar



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS19 FIREBAG FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Firebag	Station number:	AMS 19
Calibration Date:	February 12, 2026	Last Cal Date:	January 15, 2026
Start time (MST):	11:02	End time (MST):	15:55
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.97	ppm	Cal Gas Exp Date:	October 9, 2032
Cal Gas Cylinder #:	CC705799			
Removed Cal Gas Conc:	50.97	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:			Diff between cyl:	
Calibrator Model:	Teledyne API T700		Serial Number:	5258
Zero Air Gen Model:	Teledyne API T701H		Serial Number:	201

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	1410661308
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.000717	1.004526	Backgd or Offset:	11.3	11.5
Calibration intercept:	0.620000	-1.138718	Coeff or Slope:	1.008	0.987

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4922	78.5	800.2	819.0	0.977
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	818.9	Previous response	801.4	*% change	2.1%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	4922	78.5	800.2	803.0	0.997
Mid point	4961	39.2	399.6	400.4	0.998
Low point	4980	19.6	199.8	198.1	1.009
As left zero	4999	0.0	0.0	-0.3	----
As left span	4922	78.4	799.2	803.0	0.995
Average Correction Factor:					1.001

Notes: Changed sample inlet filter after as founds. Adjusted zero and span. Replaced calibrator before calibration due to failed leak check, causing span shift on as found.

Calibration Performed By: Braiden Boutillier



Wood Buffalo Environmental Association

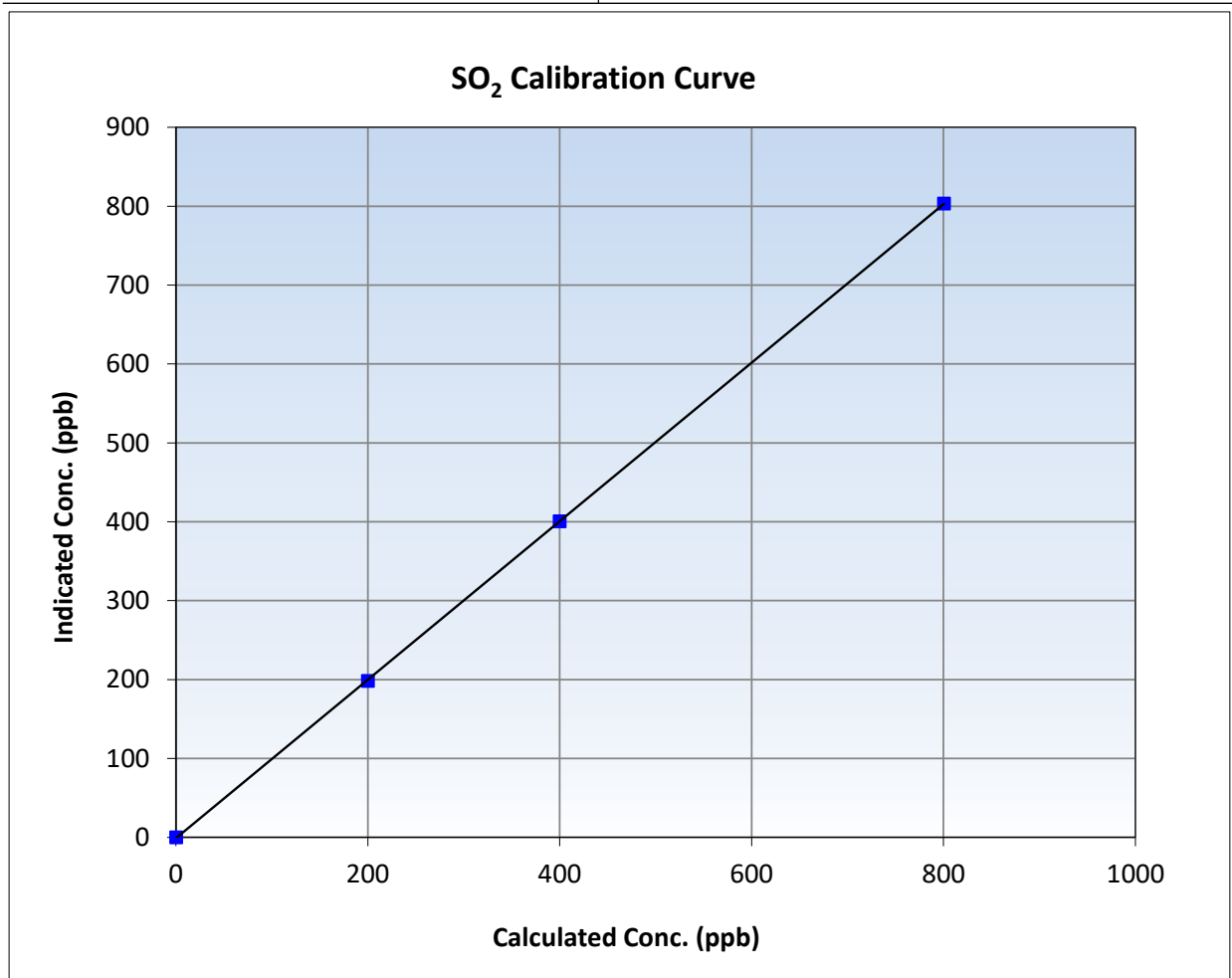
SO₂ Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 15, 2026
Station Name:	Firebag	Station Number:	AMS 19
Start Time (MST):	11:02	End Time (MST):	15:55
Analyzer make:	Thermo 43i	Analyzer serial #:	1410661308

Calibration Data

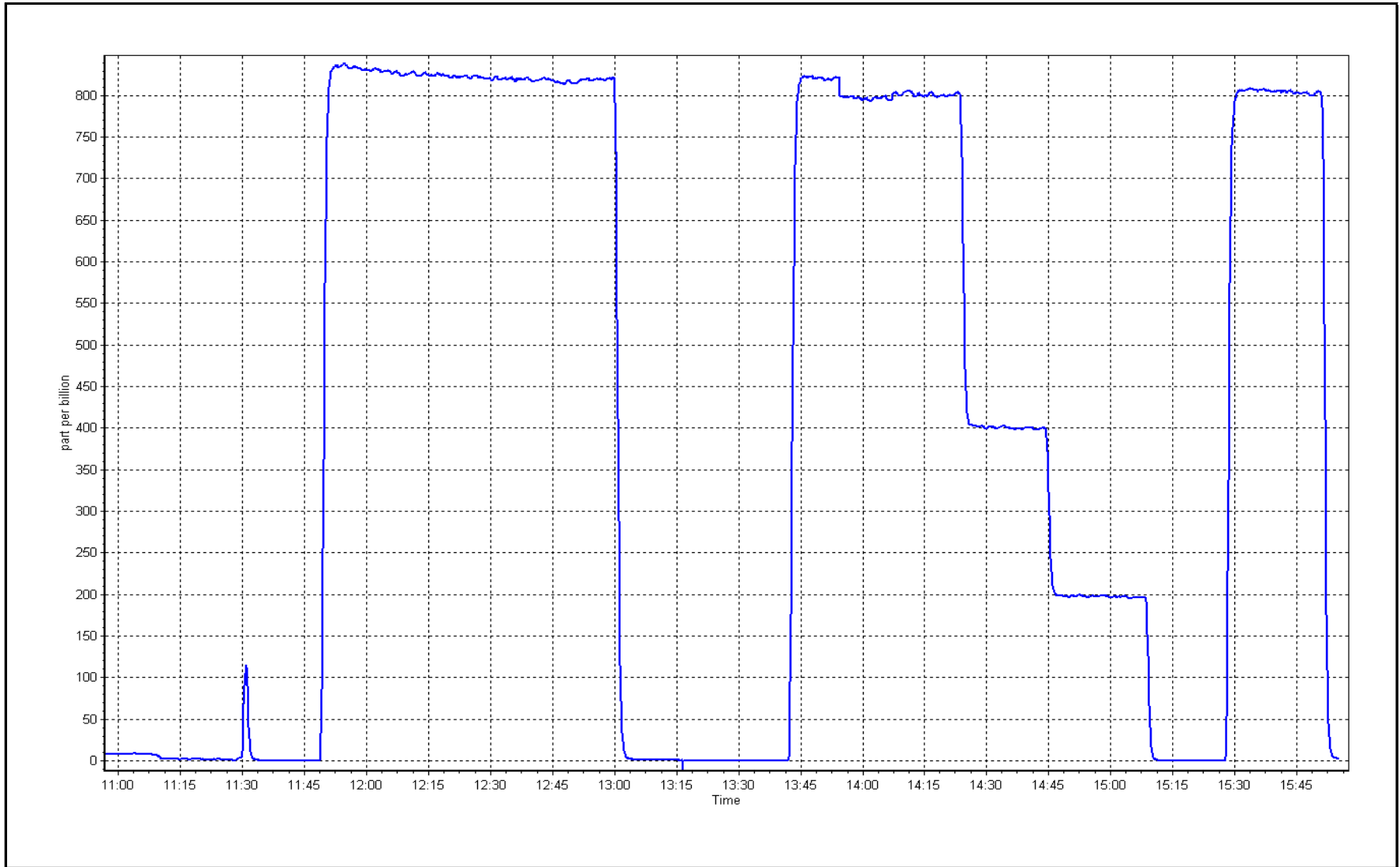
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	-0.1	----	Correlation Coefficient	0.999991	≥0.995
800.2	803.0	0.9965	Slope	1.004526	0.90 - 1.10
399.6	400.4	0.9980	Intercept	-1.138718	+/-30
199.8	198.1	1.0086			



SO2 Calibration Plot

Date: February 12, 2026

Location: Firebag





Wood Buffalo Environmental Association

H2S Calibration Report

Station Information

Station Name:	Firebag	Station number:	AMS 19
Calibration Date:	February 10, 2026	Last Cal Date:	January 13, 2026
Start time (MST):	11:17	End time (MST):	16:48
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	5.29 ppm	Cal Gas Exp Date:	March 19, 2027
Cal Gas Cylinder #:	DT0010492	Rem Gas Exp Date:	NA
Removed Cal Gas Conc:	5.29 ppm	Diff between cyl:	
Removed Gas Cyl #:	NA	Serial Number:	1607
Calibrator Make/Model:	Teledyne API T700	Serial Number:	201
ZAG Make/Model:	Teledyne API T701		

Analyzer Information

Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1151680032
Converter make:	Global	Converter serial #:	2022-222
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.996046	1.002619	Backgd or Offset:	2.90	3.18
Calibration intercept:	0.120000	0.040000	Coeff or Slope:	1.219	1.237

H2S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.2	----
As found High point	4924	75.6	80.0	80.0	1.002
As found Mid point	4962	37.8	40.0	40.2	1.000
As found Low point	4981	18.9	20.0	20.1	1.005
New cylinder response					
Baseline Corr As found:	79.8	Prev response:	79.79	*% change:	0.0%
Baseline Corr 2nd AF pt:	40.0	AF Slope:	0.998047	AF Intercept:	0.200000
Baseline Corr 3rd AF pt:	19.9	AF Correlation:	0.999997	* = > +/-5% change initiates investigation	

H2S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4924	75.6	80.0	80.2	0.997
Mid point	4962	37.8	40.0	40.2	0.995
Low point	4981	18.9	20.0	20.1	0.995
As left zero	5000	0.0	0.0	0.1	----
As left span	4924	75.6	80.0	79.7	1.004
SO2 Scrubber Check				0.0	
Date of last scrubber change:		18-Jan-23		Ave Corr Factor	0.996
Date of last converter efficiency test:		November 26, 2024		106.2%	efficiency

Notes: Changed sample inlet filter after as founds. SOx scrubber check done after cal zero, passed. Adjusted zero and span.

Calibration Performed By: Braiden Boutilier



Wood Buffalo Environmental Association

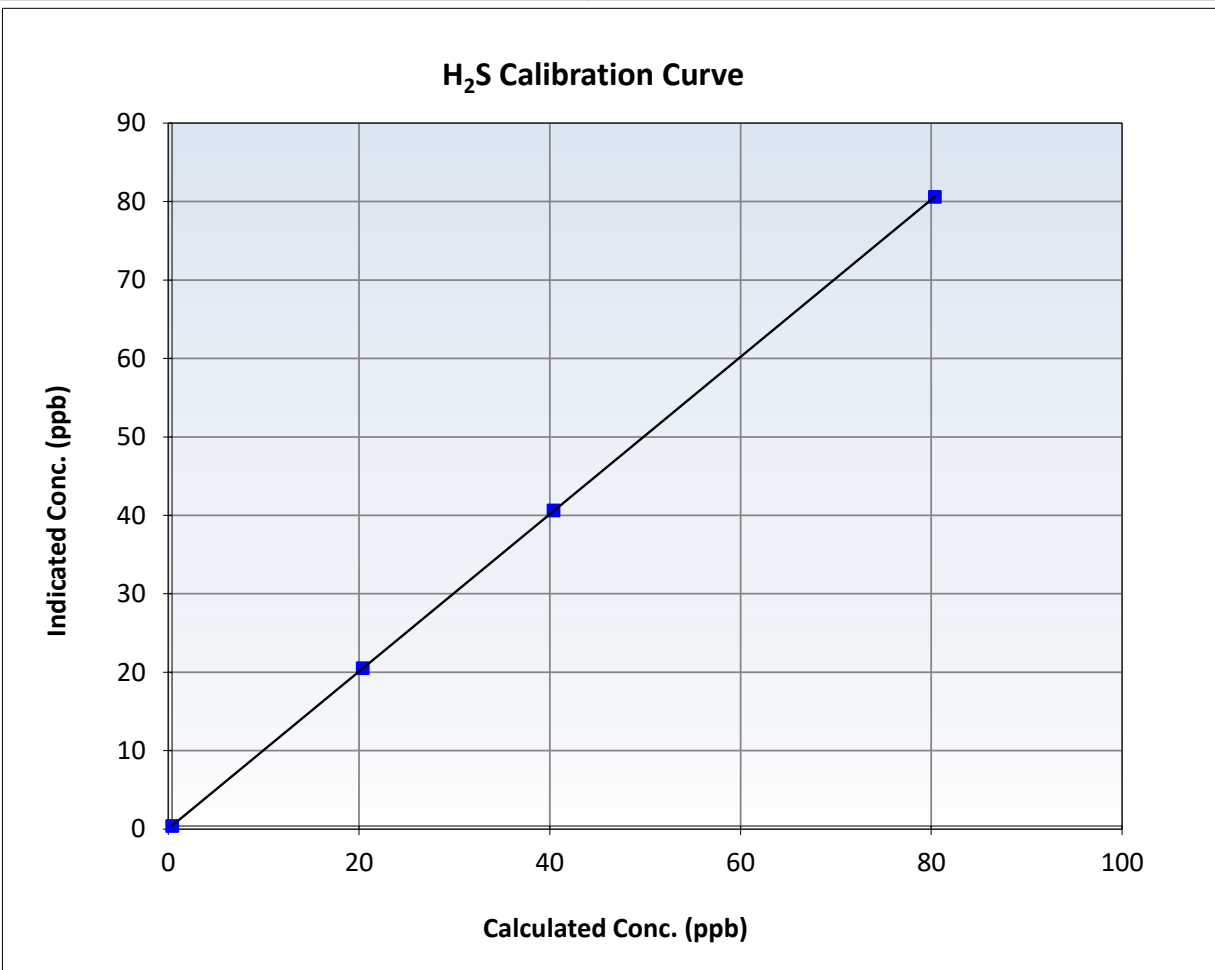
H2S Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 13, 2026
Station Name:	Firebag	Station Number:	AMS 19
Start Time (MST):	11:17	End Time (MST):	16:48
Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1151680032

Calibration Data

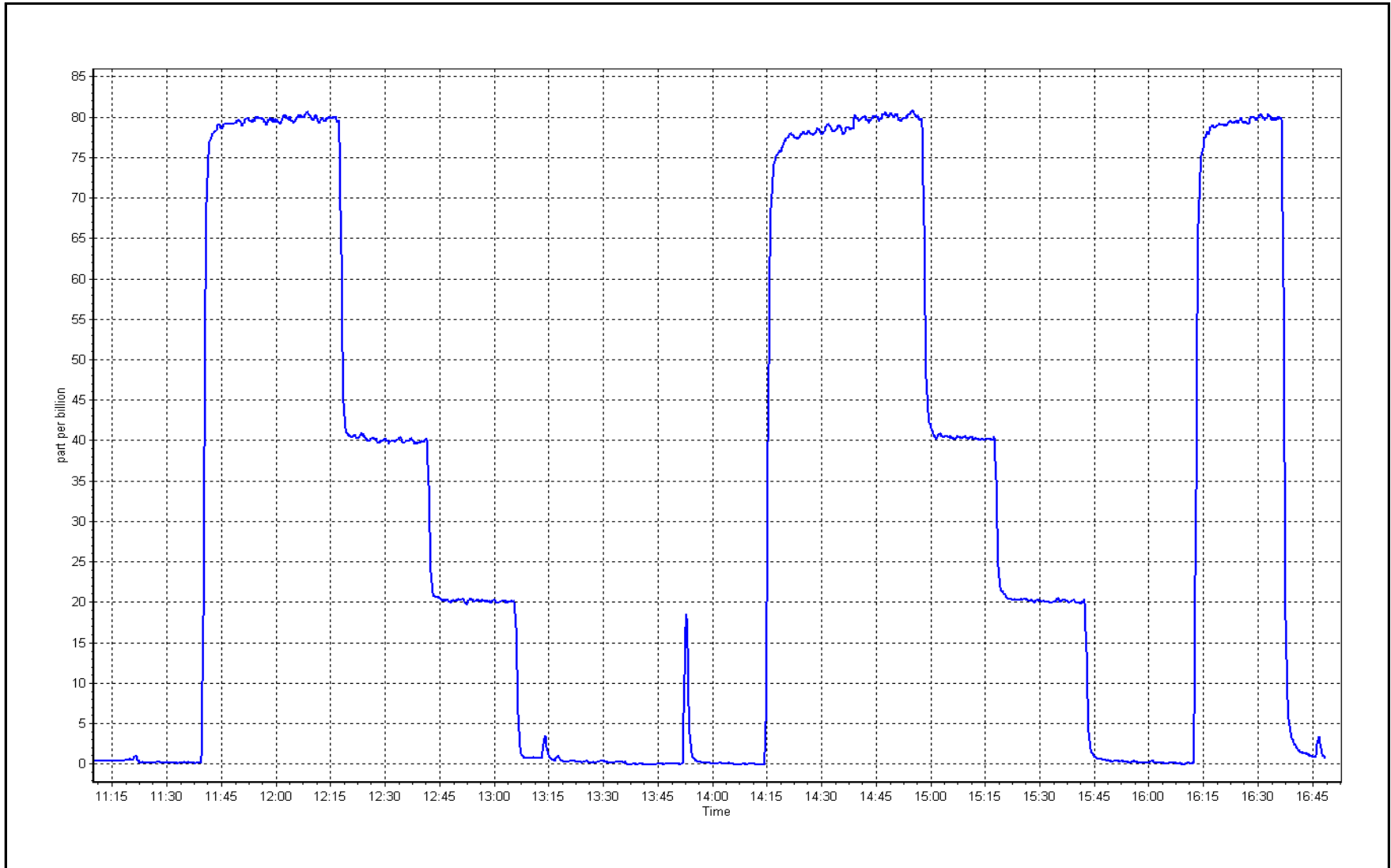
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999998	≥ 0.995
80.0	80.2	0.9973	Slope	1.002619	$0.90 - 1.10$
40.0	40.2	0.9948	Intercept	0.040000	± 3
20.0	20.1	0.9948			



H2S Calibration Plot

Date: February 10, 2026

Location: Firebag





Wood Buffalo Environmental Association

THC Calibration Report

Station Information

Station Name:	Firebag	Station number:	AMS 19
Calibration Date:	February 12, 2026	Last Cal Date:	January 15, 2026
Start time (MST):	11:02	End time (MST):	15:55
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC705799	Cal Gas Expiry Date:	October 9, 2032
CH4 Cal Gas Conc.	505.1 ppm	CH4 Equiv Conc.	1066.9 ppm
C3H8 Cal Gas Conc.	204.3 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH4 Conc.	505.1 ppm	CH4 Equiv Conc.	1066.9 ppm
Removed C3H8 Conc.	204.3 ppm	Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700	Serial Number:	5258
ZAG Make/Model:	Teledyne API T701H	Serial Number:	201

Analyzer Information

Analyzer make: Thermo 51i-LT	Analyzer serial #: 1336160089
Analyzer Range: 0 - 20 ppm	

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.990182	0.991795	Background:	2.01	2.11
Calibration intercept:	0.040668	0.037405	Coefficient:	3.825	3.773

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated Concentration (ppm) (Cc)	Indicated Concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
					Limit = 0.90-1.10
As found zero	5000	0.0	0.00	0.06	----
As found High point	4922	78.5	16.75	17.13	0.982
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	17.07	Previous response	16.63	*% change	2.6%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated Concentration (ppm) (Cc)	Indicated Concentration (ppm) (Ic)	Correction factor (Cc/Ic)
					Limit = 0.95-1.05
Calibrator zero	5000	0.0	0.00	0.09	----
High point	4922	78.5	16.75	16.68	1.004
Mid point	4961	39.2	8.36	8.30	1.008
Low point	4980	19.6	4.18	4.13	1.012
As left zero	4999	0.0	0.00	0.07	----
As left span	4922	78.4	16.73	16.89	0.990
Average Correction Factor					1.008

Notes: Changed sample inlet filter after as founds. Adjusted zero and span. Replaced calibrator before calibration due to failed leak check, causing span shift on as found.

Calibration Performed By: Braiden Boutilier



Wood Buffalo Environmental Association

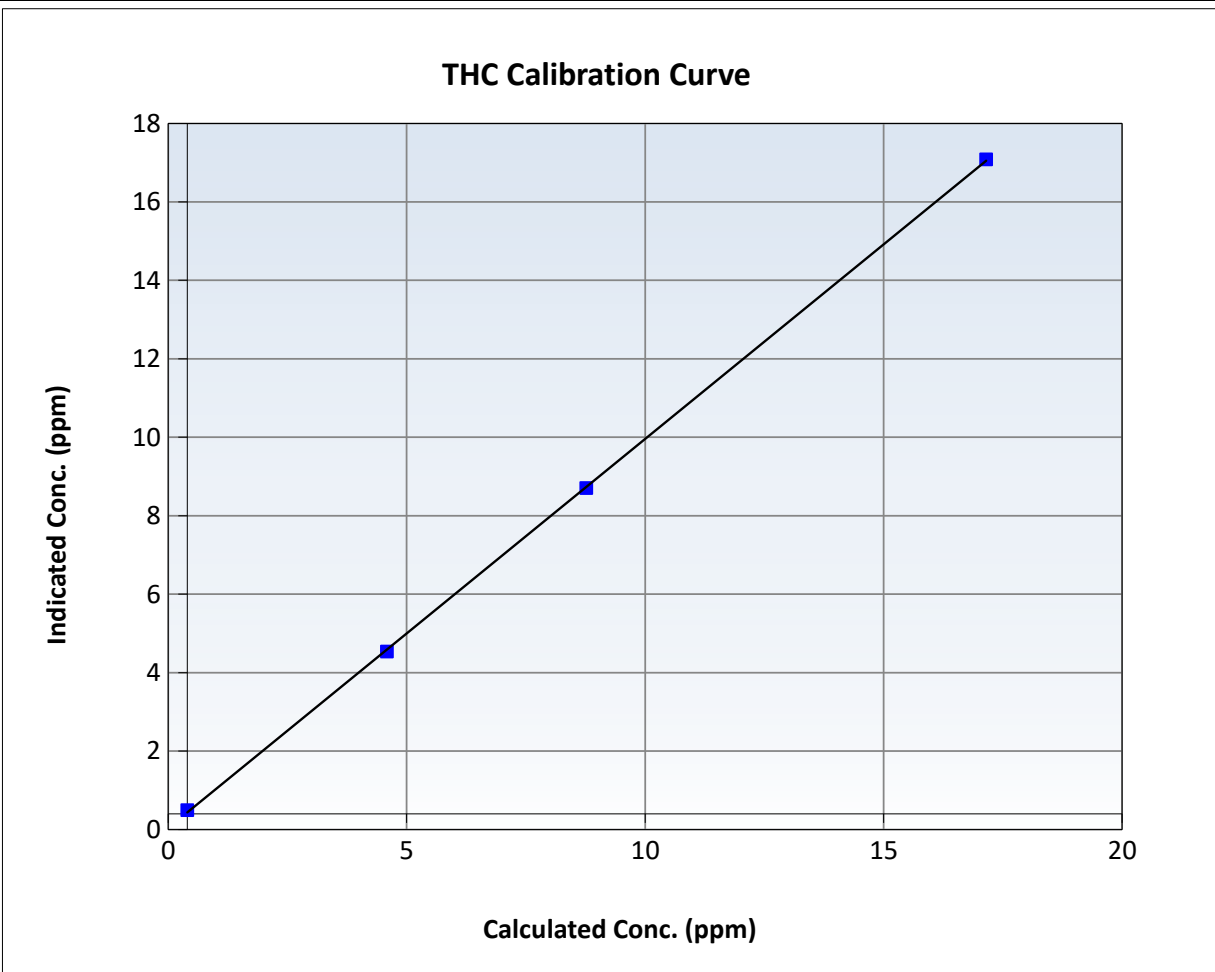
THC Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 15, 2026
Station Name:	Firebag	Station Number:	AMS 19
Start Time (MST):	11:02	End Time (MST):	15:55
Analyzer make:	Thermo 51i-LT	Analyzer serial #:	1336160089

Calibration Data

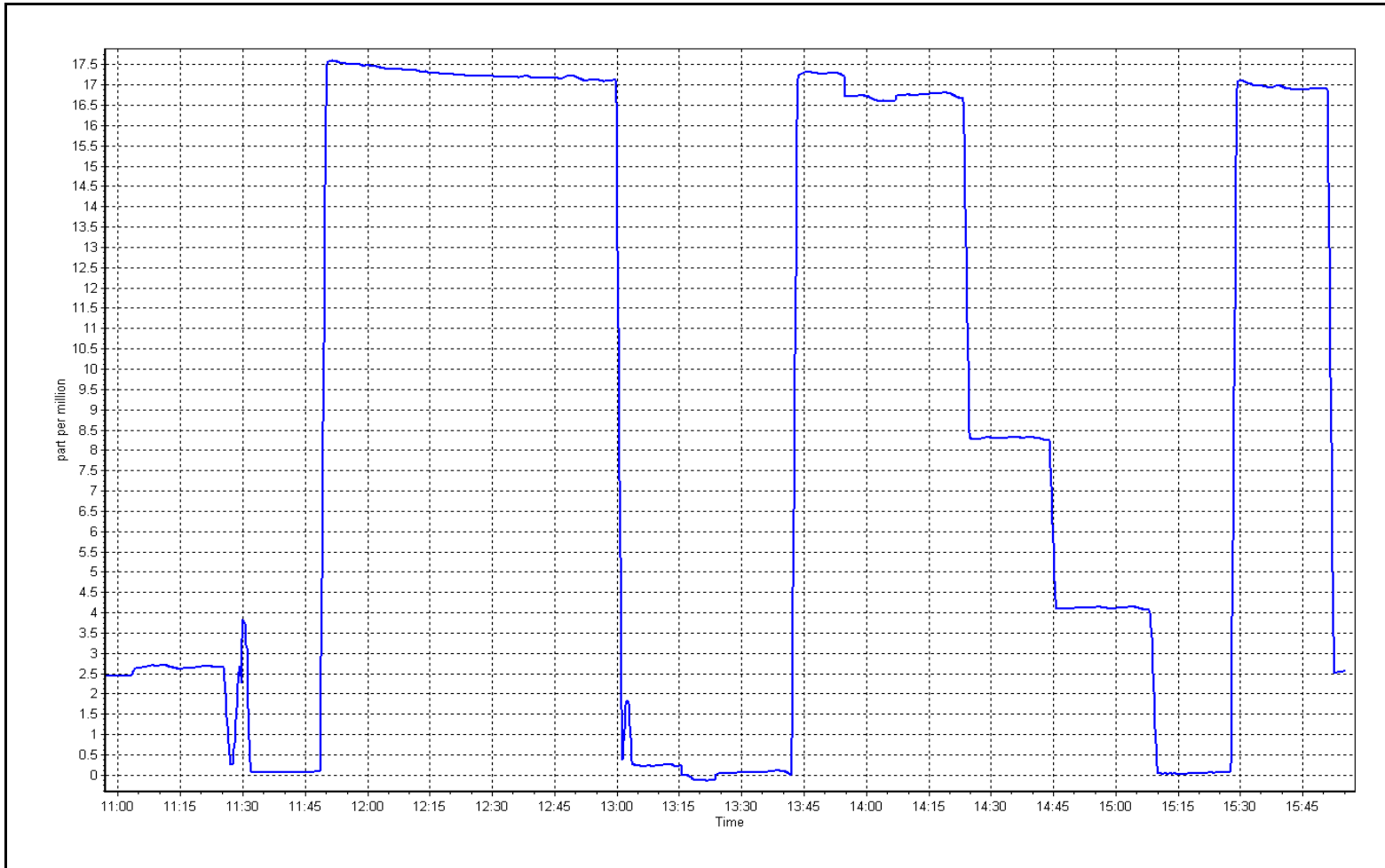
Calculated Concentration (ppm) (Cc)	Indicated Concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.00	0.09	----	Correlation Coefficient	0.999949	≥0.995
16.75	16.68	1.0042	Slope	0.991795	0.90 - 1.10
8.36	8.30	1.0078	Intercept	0.037405	+/-1.5
4.18	4.13	1.0118			



THC Calibration Plot

Date: February 12, 2026

Location: Firebag





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Firebag
 Station number: AMS 19
 Calibration Date: February 25, 2026
 Last Cal Date: January 23, 2026
 Start time (MST): 11:08
 End time (MST): 17:40
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0044018
 NOX Cal Gas Conc: 48.90 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 48.90 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701H
 Cal Gas Expiry Date: November 3, 2031
 NO Cal Gas Conc: 48.70 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 48.70 ppm
 NO gas Diff:
 Serial Number: 5258
 Serial Number: 201

As Found Dilution Calibration Data

Set Point	Dilution flow rate (scm)	Source gas flow rate (scm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.2	-0.2	0.0	----	----
AF High point	4918	82.1	802.9	799.7	3.3	797.7	793.5	4.2	1.0063	1.0075
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 799.0 ppb		NO = 796.2 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -0.1%	
Baseline Corr 1st pt	NO _x = 797.9 ppb		NO = 793.7 ppb			<u>As Found Statistics</u>		*Percent Change	NO = -0.3%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1410661309

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.994971	1.002301
NO _x Cal Offset:	0.120563	-1.679797
NO Cal Slope:	0.995599	1.001802
NO Cal Offset:	0.080340	-1.940049
NO ₂ Cal Slope:	1.003808	0.995533
NO ₂ Cal Offset:	-0.933673	0.149893

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.896	0.904	NO bkgnd or offset:	4.5	4.5
NOX coeff or slope:	0.994	0.994	NOX bkgnd or offset:	4.5	4.5
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	164.2	160.5

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOX concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOX concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOX Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	-0.1	-0.2	0.1	----	----
High point	4918	82.1	802.9	799.7	3.3	804.0	800.0	3.3	0.9987	0.9996
Mid point	4959	41.1	402.0	400.3	1.6	400.1	398.3	1.8	1.0046	1.0051
Low point	4980	20.5	200.5	199.7	0.8	197.9	196.3	1.6	1.0131	1.0172
As left zero	5000	0	0.0	0.0	0.0	-0.1	-0.2	0.1	----	----
As left span	4918	82.1	802.9	394.8	408.1	799.3	394.8	404.5	1.0046	1.0000
Average Correction Factor									1.0055	1.0073

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.1	----	----
High GPT point	789.2	393.2	399.3	397.6	1.0042	99.6%
Mid GPT point	789.2	585.1	207.4	206.7	1.0033	99.7%
Low GPT point	789.2	671.2	121.3	120.9	1.0032	99.7%
Average Correction Factor					1.0036	99.6%

Notes: Changed sample inlet filter after as founds. Adjusted span.

Calibration Performed By: Braiden Boutilier, Jason Brooks



Wood Buffalo Environmental Association

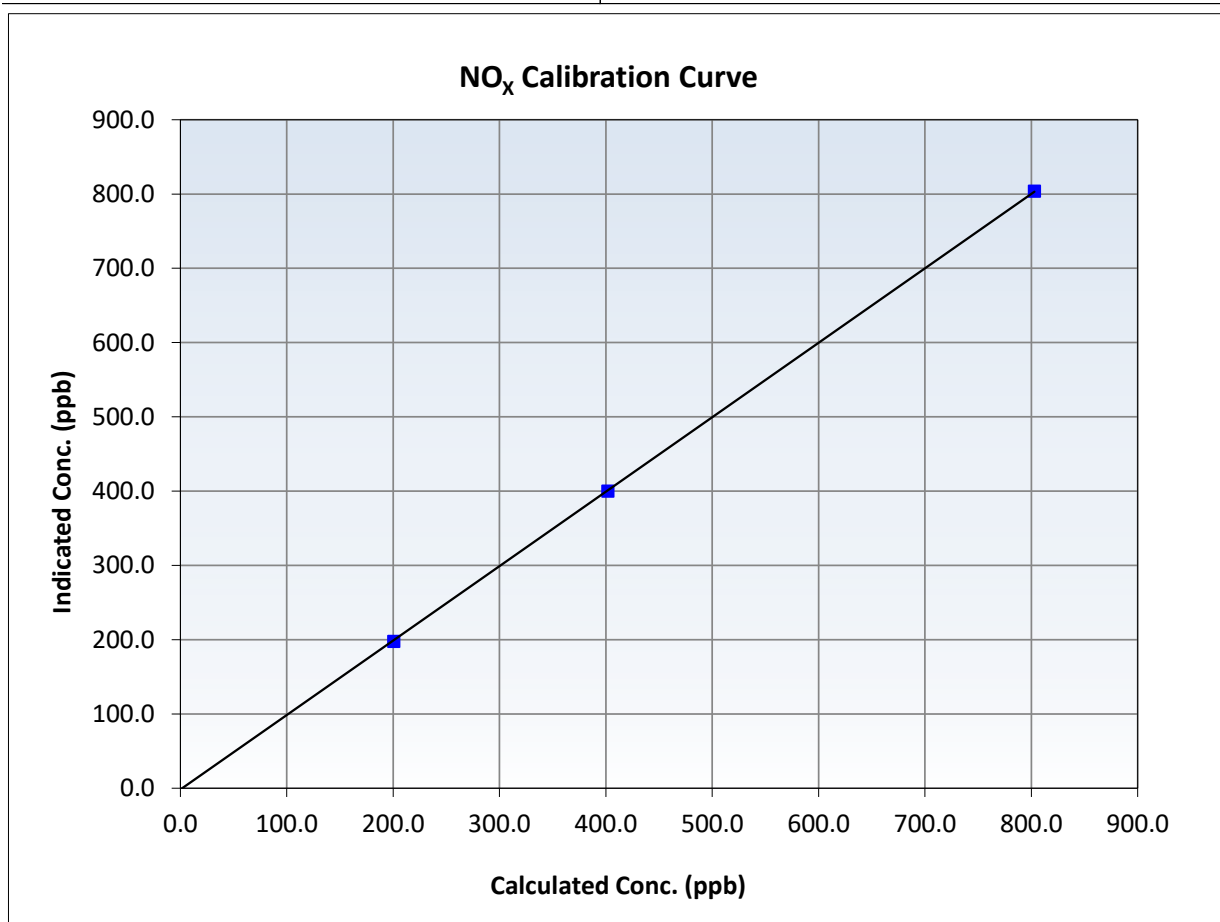
NO_x Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 23, 2026
Station Name:	Firebag	Station Number:	AMS 19
Start Time (MST):	11:08	End Time (MST):	17:40
Analyzer make:	Thermo 42i	Analyzer serial #:	1410661309

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.1	----	Correlation Coefficient	0.999982	<i>≥0.995</i>
802.9	804.0	0.9987	Slope	1.002301	<i>0.90 - 1.10</i>
402.0	400.1	1.0046	Intercept	-1.679797	<i>+/-20</i>
200.5	197.9	1.0131			





Wood Buffalo Environmental Association

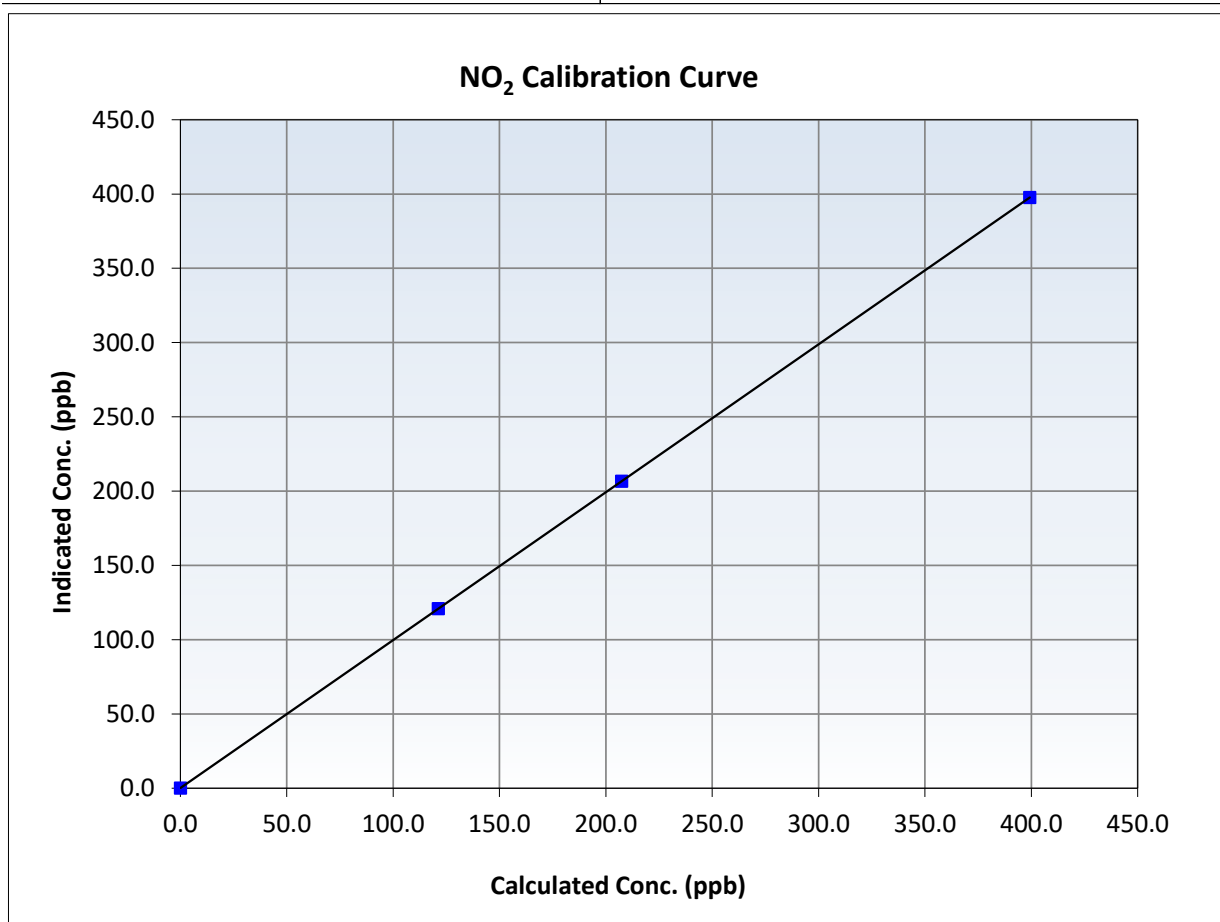
NO₂ Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 23, 2026
Station Name:	Firebag	Station Number:	AMS 19
Start Time (MST):	11:08	End Time (MST):	17:40
Analyzer make:	Thermo 42i	Analyzer serial #:	1410661309

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	1.000000	<i>≥0.995</i>
399.3	397.6	1.0042	Slope	0.995533	<i>0.90 - 1.10</i>
207.4	206.7	1.0033	Intercept	0.149893	<i>+/-20</i>
121.3	120.9	1.0032			





Wood Buffalo Environmental Association

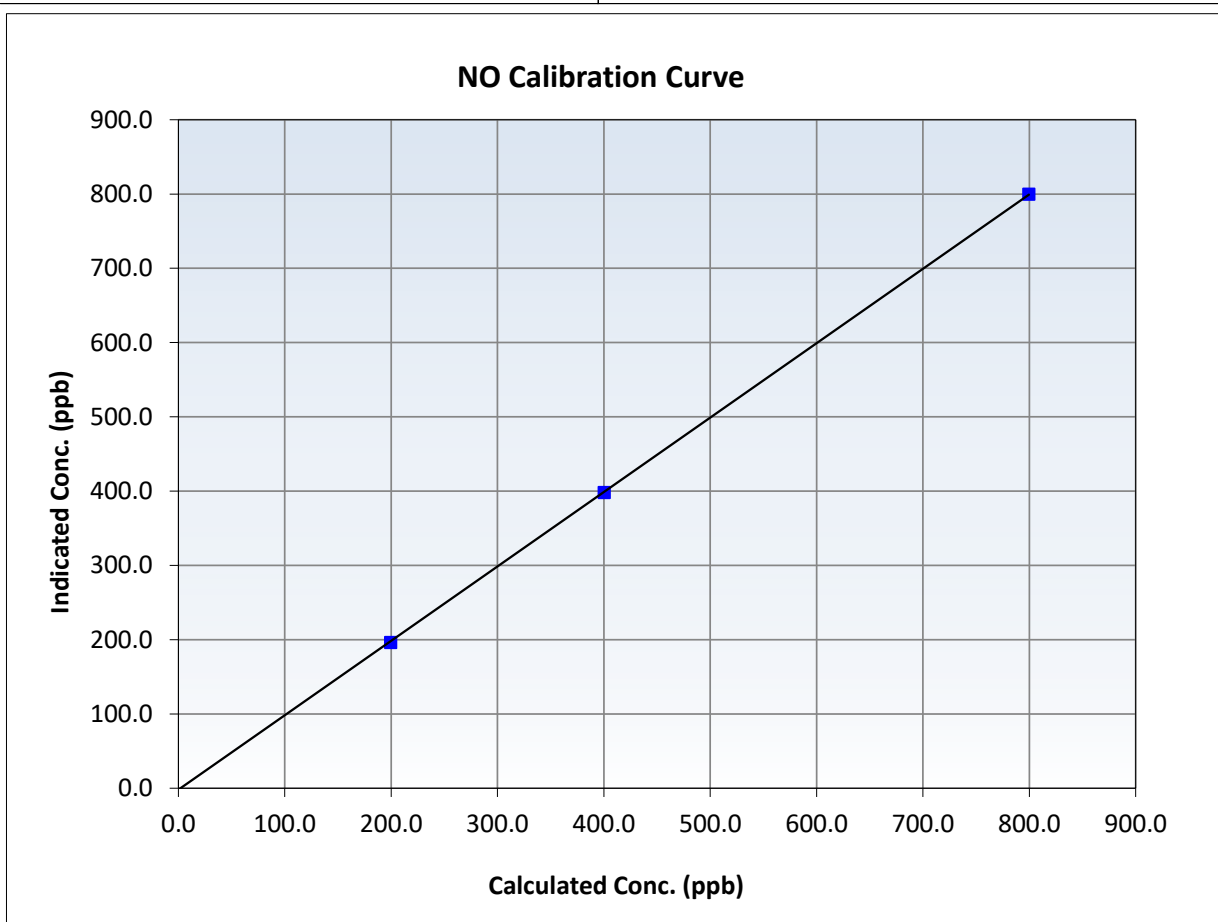
NO Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 23, 2026
Station Name:	Firebag	Station Number:	AMS 19
Start Time (MST):	11:08	End Time (MST):	17:40
Analyzer make:	Thermo 42i	Analyzer serial #:	1410661309

Calibration Data

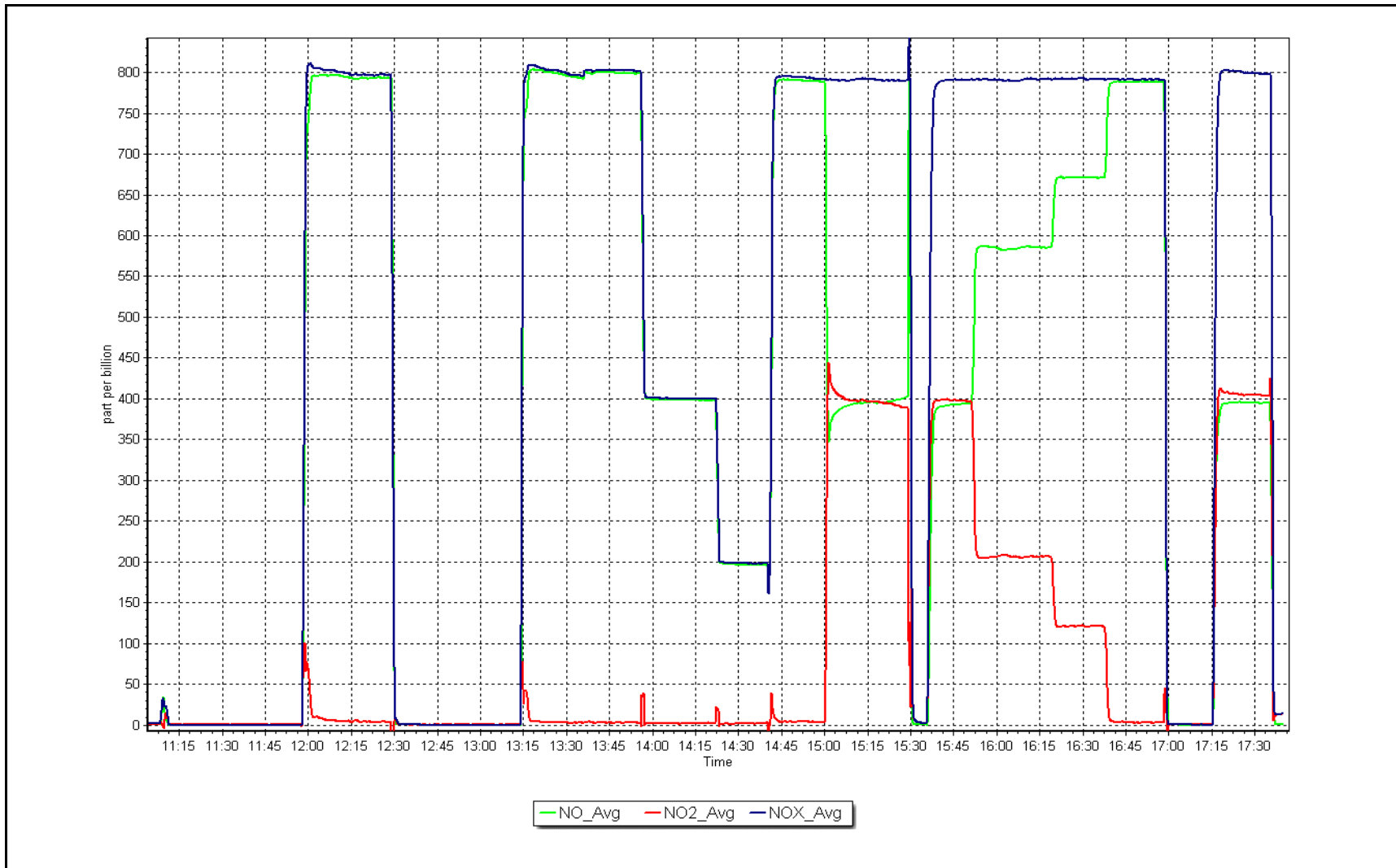
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.2	----	Correlation Coefficient	0.999978	<i>≥0.995</i>
799.7	800.0	0.9996	Slope	1.001802	<i>0.90 - 1.10</i>
400.3	398.3	1.0051	Intercept	-1.940049	<i>+/-20</i>
199.7	196.3	1.0172			



NO_x Calibration Plot

Date: February 25, 2026

Location: Firebag





Wood Buffalo Environmental Association

Wind Speed/Direction Calibration Report

Version-10-2022

Station Information

Station Name:	Firebag	Station Number:	AMS 19
Calibration Date:	February 25, 2026	Prev Cal Date:	November 12, 2025
Start Time (MST):	12:03	End Time (MST):	13:35
Tower Height (m):	10.0	Reason:	Removal

Wind Speed Information

Sensor make/model:	Met One 010C-1	Serial Number:	W15276
WS Calibrator:	MetOne 053	Serial Number:	CA 03845

Shaft RPM	Calculated Speed (K/hr) (Cv)	Indicated Speed (K/hr) (Iv)	% Error <i>Limit = +/- 1.5%</i>
0	0.0		---
200	20.2		
400	39.4		
600	58.6		
800	77.8		

	<u>Start</u>	<u>Finish</u>	<u>Limits</u>
Correl Coeff (r ²)			≥0.9995
Calculated slope			0.90 - 1.10
Calculated intercept			+/- 2

Wind Direction Information

Sensor make/model:	Met One 020D	Serial Number:	D14057
As Found Declination (deg east of True North):	<u>13</u>	As Left Declination (deg east of True North):	<u>13</u>
Solar noon time (MST):	13:36	Calc Declination*:	12.79 ± 0.49°
Deadband calc:	16.2 degrees (<i>Limit 4 deg</i>)		Degrees

* - calculated declination as per NOAA website

Physical Direction (Degrees) (Cv)	Indicated Direction (Degrees) (Iv)	% Error (based on 357° FS) <i>Limit = +/- 1.0%</i>
10	12.0	---
90	88.1	-0.5%
180	181.3	0.4%
270	274.3	1.2%
350	352.8	0.8%

	<u>Start</u>	<u>Finish</u>	<u>Limits</u>
Correl Coeff (r ²)		0.999903	≥0.9995
Calculated slope		0.990516	0.90 - 1.10
Calculated intercept		0.023241	+/- 4

Notes: Replaced WD sensor

Calibration Performed By: Braiden Boutilier, Jason Brooks



Wood Buffalo Environmental Association

Wind Speed/Direction Calibration Report

Version-10-2022

Station Information

Station Name:	Firebag	Station Number:	AMS 19
Calibration Date:	February 25, 2026	Prev Cal Date:	November 12, 2025
Start Time (MST):	12:03	End Time (MST):	13:35
Tower Height (m):	10.0	Reason:	Routine

Wind Speed Information

Sensor make/model:	Met One 010C-1	Serial Number:	W15276
WS Calibrator:	MetOne 053	Serial Number:	CA 05230

Shaft RPM	Calculated Speed (K/hr) (Cv)	Indicated Speed (K/hr) (Iv)	% Error <i>Limit = +/- 1.5%</i>
0	0.0	0.0	---
200	20.2	20.1	-0.3%
400	39.4	39.4	0.1%
600	58.6	58.5	0.0%
800	77.8	77.8	0.1%

	<u>Start</u>	<u>Finish</u>	<u>Limits</u>
Correl Coeff (r ²)		0.999999	≥0.9995
Calculated slope		0.998909	0.90 - 1.10
Calculated intercept		0.030357	+/- 2

Wind Direction Information

Sensor make/model:	Met One 020D	Serial Number:	G3857
As Found Declination (deg east of True North):	<u>13</u>	As Left Declination (deg east of True North):	<u>13</u>
Solar noon time (MST):	12:36	Calc Declination*:	12.79 ± 0.49° Degrees
Deadband calc:	13.5 degrees (<i>Limit 4 deg</i>)		* - calculated declination as per NOAA website

Physical Direction (Degrees) (Cv)	Indicated Direction (Degrees) (Iv)	% Error (based on 357° FS) <i>Limit = +/- 1.0%</i>
10	9.9	---
90	89.0	-0.3%
180	180.5	0.1%
270	272.8	0.8%
350	353.4	1.0%

	<u>Start</u>	<u>Finish</u>	<u>Limits</u>
Correl Coeff (r ²)		0.999983	≥0.9995
Calculated slope		0.987462	0.90 - 1.10
Calculated intercept		1.160668	+/- 4

Notes: Verified new WD sensor reading and WS readings. Aligned with previous marking and compass.

Calibration Performed By: Braiden Boutilier, Jason Brooks



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS20 MACKAY RIVER FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	MacKay River	Station number: AMS 20
Calibration Date:	February 4, 2026	Last Cal Date: January 9, 2026
Start time (MST):	8:19	End time (MST): 11:03
Reason:	Routine	

Calibration Standards

Cal Gas Concentration:	49.15	ppm	Cal Gas Exp Date: October 9, 2032
Cal Gas Cylinder #:	CC409669		
Removed Cal Gas Conc:	49.15	ppm	Rem Gas Exp Date:
Removed Gas Cyl #:			Diff between cyl:
Calibrator Model:	API T700		Serial Number: 5706
Zero Air Gen Model:	API 701		Serial Number: 4888

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number: 1501301450
Analyzer Range:	0-1000ppb	

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.998332	0.998918	Backgd or Offset:	20.6	21.0
Calibration intercept:	0.623529	0.043693	Coeff or Slope:	0.945	0.938

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.6	----
As found High point	4919	81.4	800.1	805.1	0.995
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	804.5	Previous response	799.4	*% change	0.6%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.3	----
High point	4919	81.4	800.1	799.6	1.001
Mid point	4959	40.7	400.1	399.0	1.003
Low point	4980	20.3	199.5	199.5	1.000
As left zero	5000	0.0	0.0	0.2	----
As left span	4919	81.4	800.1	800.6	0.999
Average Correction Factor:					1.001

Notes: Zero and Span adjusted. No Maintenance done.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

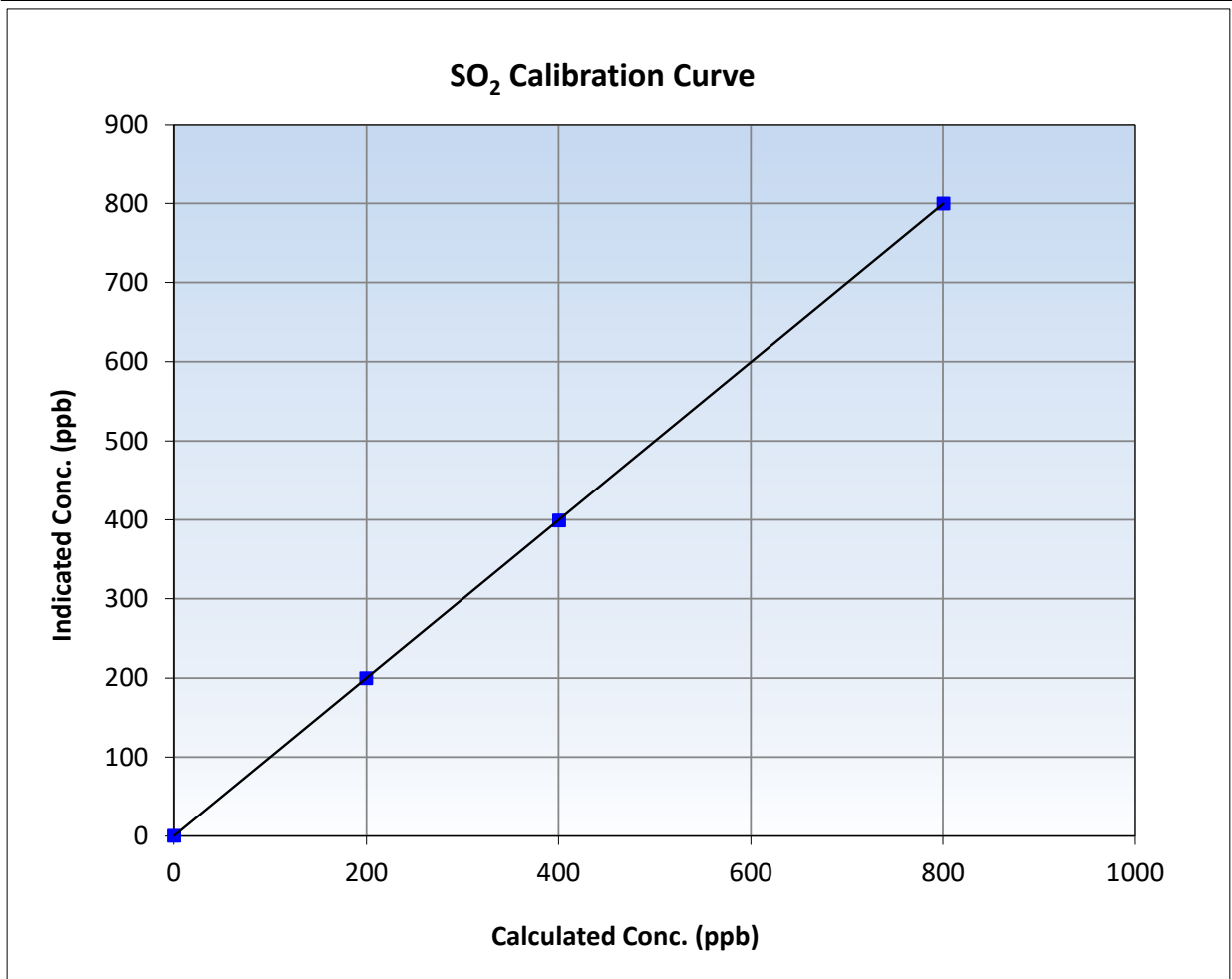
SO₂ Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	January 9, 2026
Station Name:	MacKay River	Station Number:	AMS 20
Start Time (MST):	8:19	End Time (MST):	11:03
Analyzer make:	Thermo 43i	Analyzer serial #:	1501301450

Calibration Data

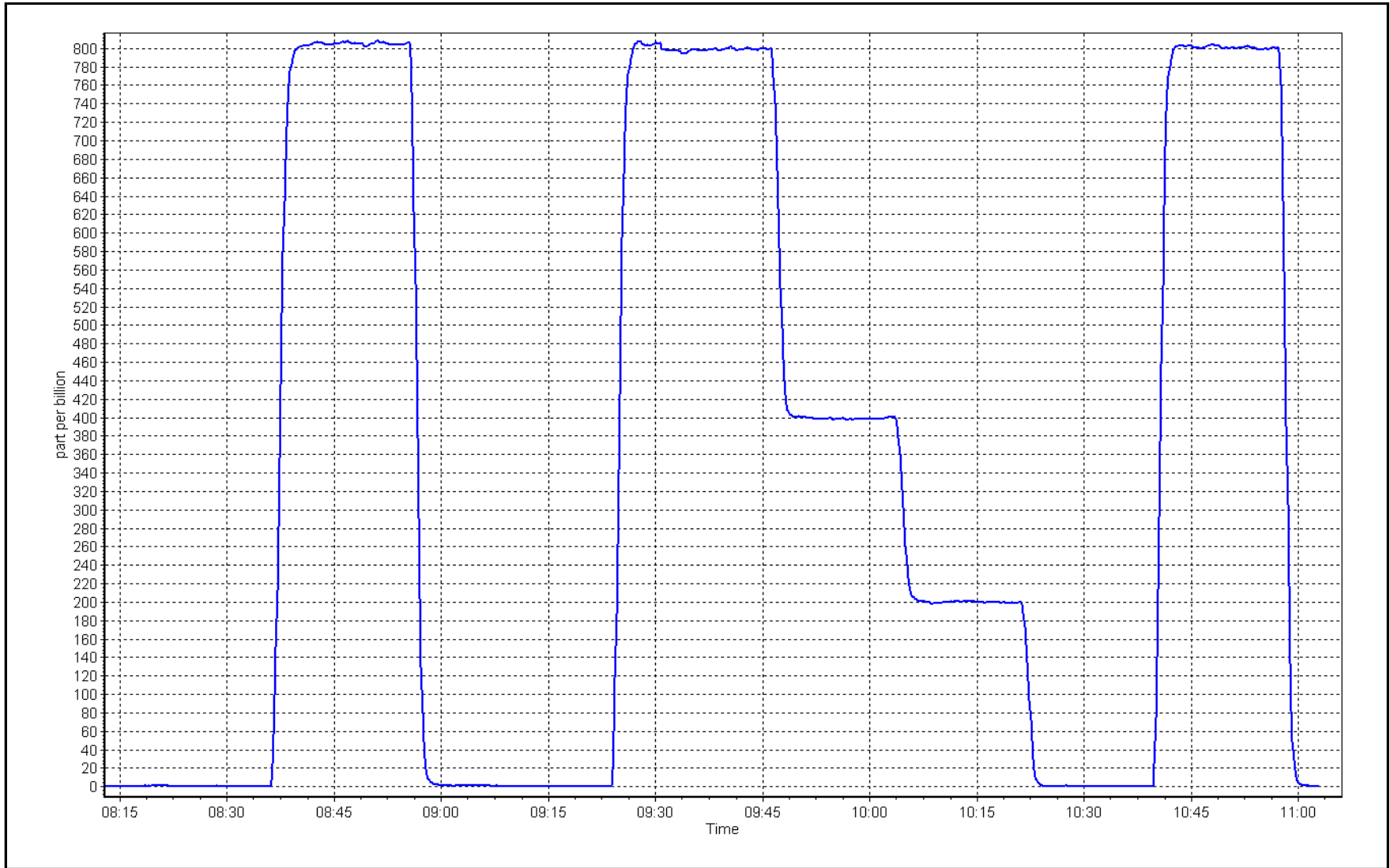
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	0.3	----	Correlation Coefficient	0.999998	≥0.995
800.1	799.6	1.0006	Slope	0.998918	0.90 - 1.10
400.1	399.0	1.0028	Intercept	0.043693	+/-30
199.5	199.5	1.0002			



SO2 Calibration Plot

Date: February 4, 2026

Location: MacKay River





Wood Buffalo Environmental Association

H₂S Calibration Report

Station Information

Station Name: MacKay River	Station number: AMS 20
Calibration Date: February 3, 2026	Last Cal Date: January 6, 2026
Start time (MST): 8:01	End time (MST): 12:36
Reason: Routine	

Calibration Standards

Cal Gas Concentration: 4.96 ppm	Cal Gas Exp Date: September 22, 2028
Cal Gas Cylinder #: CC737854	
Removed Cal Gas Conc: 5.12 ppm	Rem Gas Exp Date: January 3, 2026
Removed Gas Cyl #: CC515997	Diff between cyl: 0.5%
Calibrator Make/Model: API T700	Serial Number: 5706
ZAG Make/Model: API 701	Serial Number: 4888

Analyzer Information

Analyzer make: Thermo 43i TLE	Analyzer serial #: 1236656117
Converter make: Global	Converter serial #: 2022-226
Analyzer Range: 0 - 100 ppb	Converter Temp: 325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.998452	1.010509	Backgd or Offset:	3.77	3.77
Calibration intercept:	0.159443	0.056179	Coeff or Slope:	1.071	1.071

H₂S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4922	78.1	80.0	81.3	0.984
As found Mid point	4961	39.0	39.9	40.6	0.984
As found Low point	4980	19.5	20.0	20.3	0.984
New cylinder response	4919	80.6	80.0	81.7	0.979
Baseline Corr As found:	81.3	Prev response:	80.01	*% change:	1.6%
Baseline Corr 2nd AF pt:	40.6	AF Slope:	1.016603	AF Intercept:	-0.000317
Baseline Corr 3rd AF pt:	20.3	AF Correlation:	1.000000	<i>* = +/-5% change initiates investigation</i>	

H₂S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.2	----
High point	4919	80.6	80.0	80.9	0.988
Mid point	4960	40.3	40.0	40.5	0.988
Low point	4980	20.2	20.0	20.1	0.997
As left zero	5000	0.0	0.0	0.2	----
As left span	4922	78.1	77.5	80.4	0.964
SO ₂ Scrubber Check	4982	81.3	802.8	-0.1	----
Date of last scrubber change:	25-May-23			Ave Corr Factor	0.991
Date of last converter efficiency test:					

Notes: Sox scrubber checked after the calibrator zero. No adjustments done. Calibration Gas changed out.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

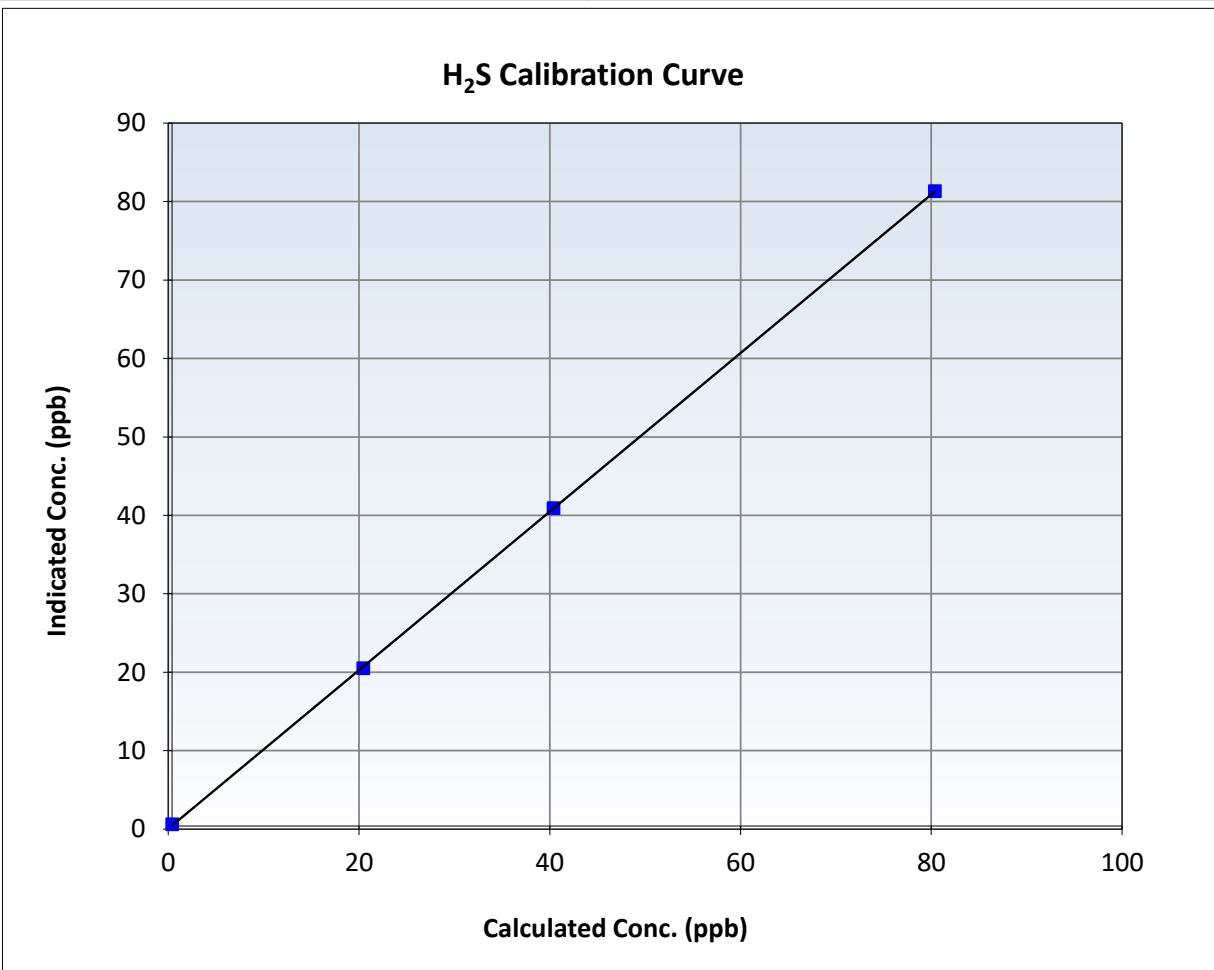
H₂S Calibration Summary

Station Information

Calibration Date:	February 3, 2026	Previous Calibration:	January 6, 2026
Station Name:	MacKay River	Station Number:	AMS 20
Start Time (MST):	8:01	End Time (MST):	12:36
Analyzer make:	Thermo 43i TLE	Analyzer serial #:	1236656117

Calibration Data

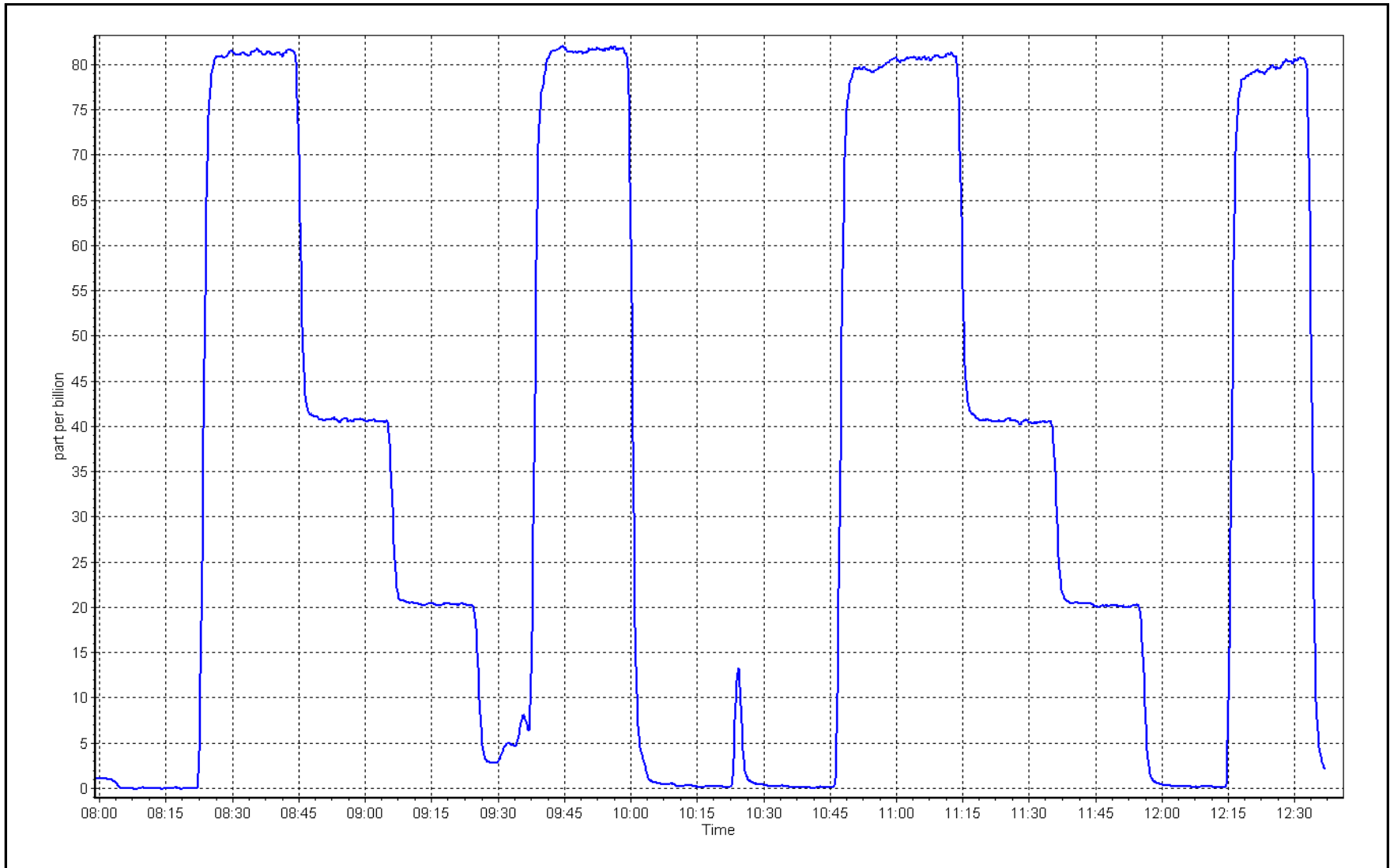
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.2	----	Correlation Coefficient	0.999982	≥0.995
80.0	80.9	0.9884	Slope	1.010509	0.90 - 1.10
40.0	40.5	0.9878	Intercept	0.056179	+/-3
20.0	20.1	0.9969			



H₂S Calibration Plot

Date: February 3, 2026

Location: MacKay River





Wood Buffalo Environmental Association

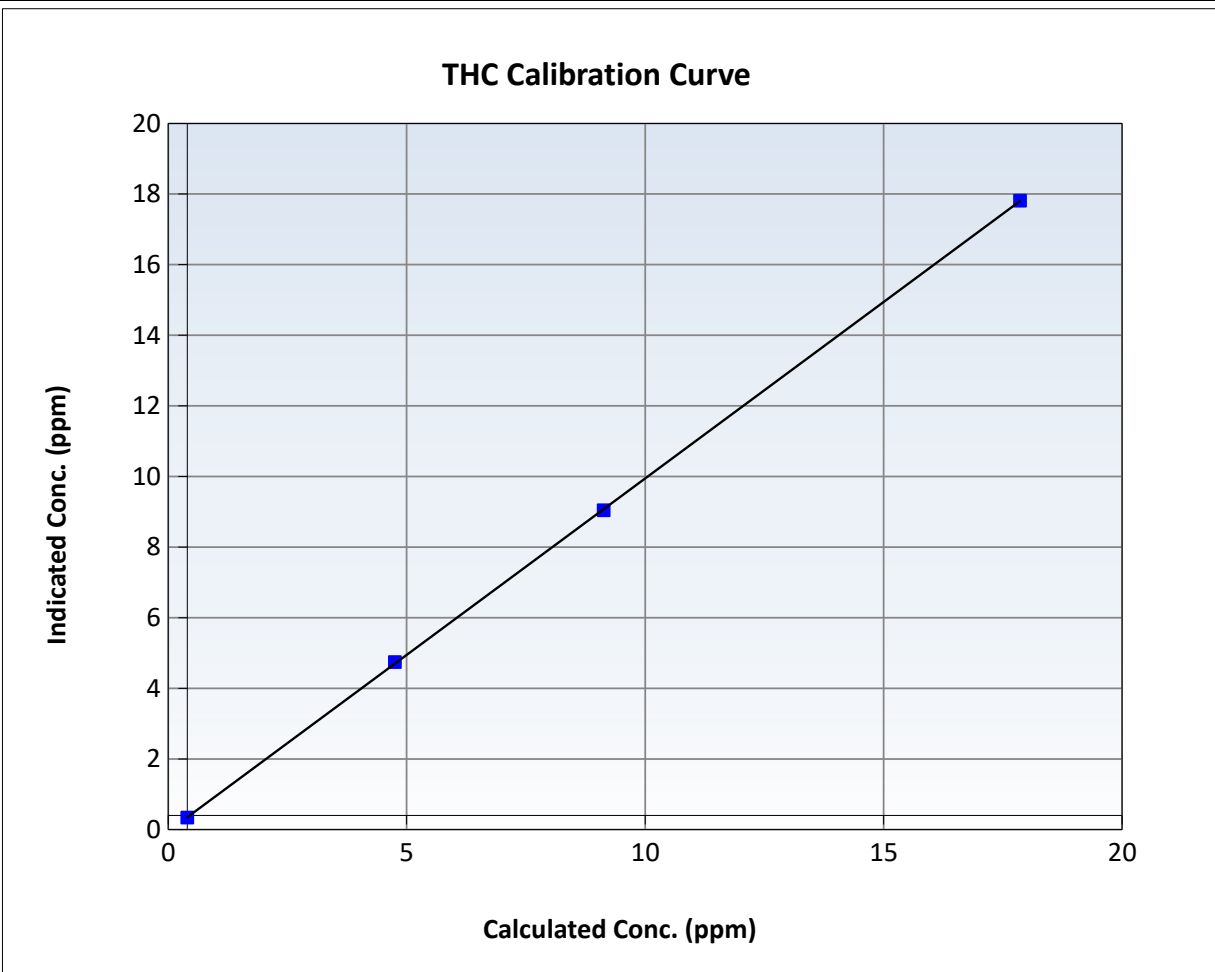
THC Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	January 9, 2026
Station Name:	MacKay River	Station Number:	AMS 20
Start Time (MST):	8:19	End Time (MST):	11:02
Analyzer make:	Thermo 51i-LT	Analyzer serial #:	1501663727

Calibration Data

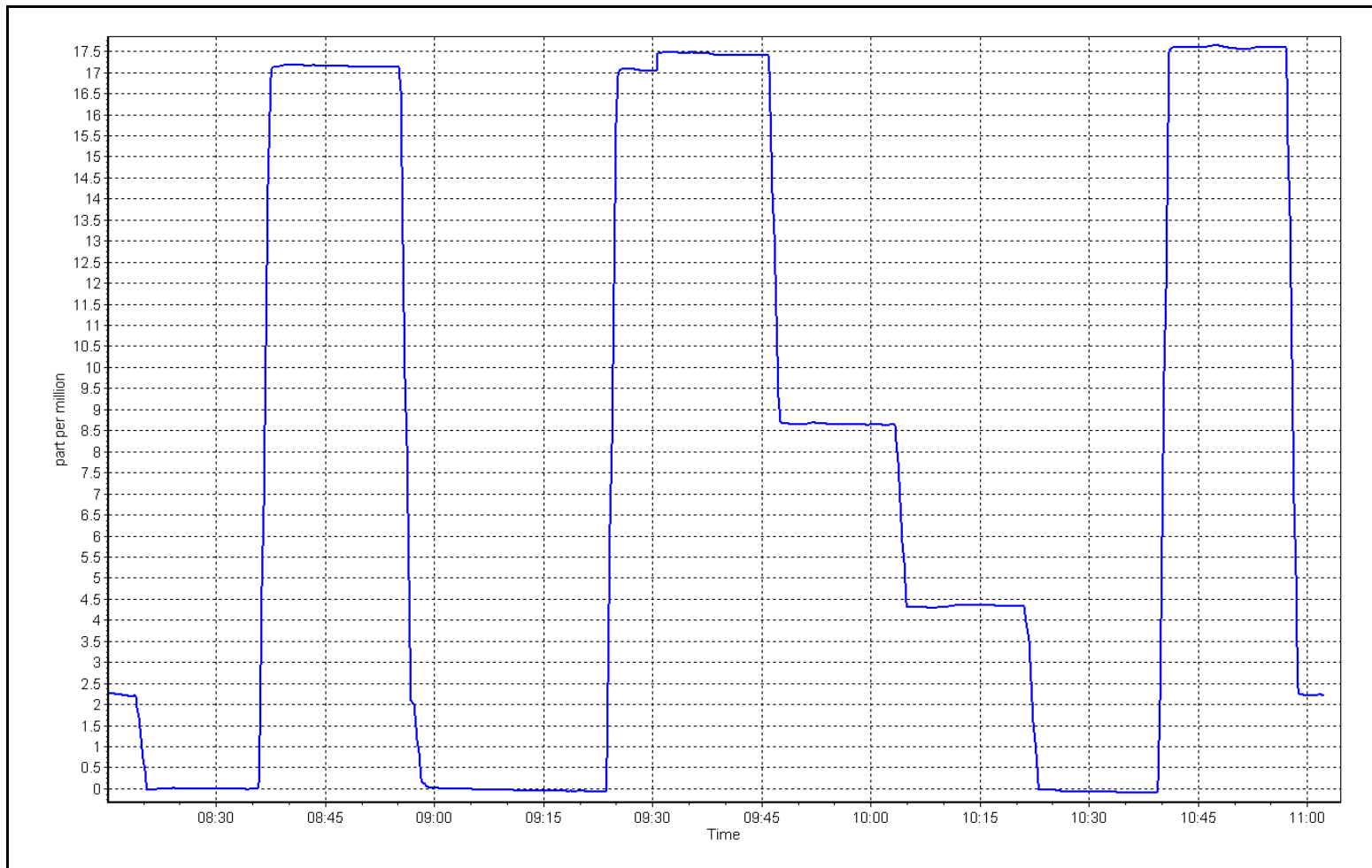
Calculated Concentration (ppm) (Cc)	Indicated Concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.00	-0.06	----	Correlation Coefficient	0.999979	≥0.995
17.46	17.41	1.0028	Slope	0.999572	0.90 - 1.10
8.73	8.64	1.0109	Intercept	-0.050569	+/-1.5
4.35	4.34	1.0027			



THC Calibration Plot

Date: February 4, 2026

Location: MacKay River





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: MacKay River
 Station number: AMS 20
 Calibration Date: February 2, 2026
 Last Cal Date: January 8, 2026
 Start time (MST): 7:55
 End time (MST): 12:09
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0037393
 NOX Cal Gas Conc: 62.00 ppm
 Removed Cylinder #:
 Removed Gas NOX Conc: 62.00 ppm
 NOX gas Diff:
 Calibrator Model: API T700
 ZAG make/model: API T701
 Cal Gas Expiry Date: July 22, 2032
 NO Cal Gas Conc: 61.90 ppm
 Removed Gas Exp Date:
 Removed Gas NO Conc: 61.90 ppm
 NO gas Diff:
 Serial Number: 5706
 Serial Number: 4888

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.2	0.0	-0.2	----	----
AF High point	4935	64.6	801.1	799.8	1.3	798.2	792.0	6.2	1.0034	1.0099
AF Mid point										
AF Low point										
New cyl resp										

Previous Response	NO _x = 797.3 ppb	NO = 790.7 ppb	<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = 0.1%
Baseline Corr 1st pt	NO _x = 798.4 ppb	NO = 792.0 ppb	<u>As Found Statistics</u>		*Percent Change	NO = 0.2%
Baseline Corr 2nd pt	NO _x = NA ppb	NO = NA ppb	As found	NO _x r ² :	Nx SI:	Nx Int:
Baseline Corr 3rd pt	NO _x = NA ppb	NO = NA ppb	As found	NO r ² :	NO SI:	NO Int:
			As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1505164379

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.994461	0.992221
NO _x Cal Offset:	0.673990	0.934400
NO Cal Slope:	0.989348	0.990105
NO Cal Offset:	-0.623666	-0.563823
NO ₂ Cal Slope:	1.007711	1.004468
NO ₂ Cal Offset:	0.784379	0.387662

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.043	1.043	NO bkgnd or offset:	2.9	2.9
NOX coeff or slope:	1.000	1.000	NOX bkgnd or offset:	3.2	3.2
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	147.7	147.7

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOx concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOx concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOx Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.0	0.2	-0.1	----	----
High point	4935	64.6	801.1	799.8	1.3	795.1	791.5	3.6	1.0076	1.0105
Mid point	4968	32.3	400.5	399.9	0.6	399.5	395.6	3.9	1.0025	1.0107
Low point	4984	16.2	200.9	200.5	0.3	200.7	196.8	4.0	1.0009	1.0190
As left zero	5000	0.0	0.0	0.0	0.0	0.1	0.2	-0.1	----	----
As left span	4935	64.6	801.1	422.3	378.8	791.7	422.3	369.4	1.0119	1.0000
Average Correction Factor									1.0036	1.0134

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	-0.1	----	----
High GPT point	786.4	412.2	375.5	377.5	0.9947	100.5%
Mid GPT point	786.4	595.6	192.1	193.0	0.9953	100.5%
Low GPT point	786.4	689.8	97.9	99.6	0.9829	101.7%
Average Correction Factor					0.9909	100.9%

Notes: No Maintenance or adjustments done.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

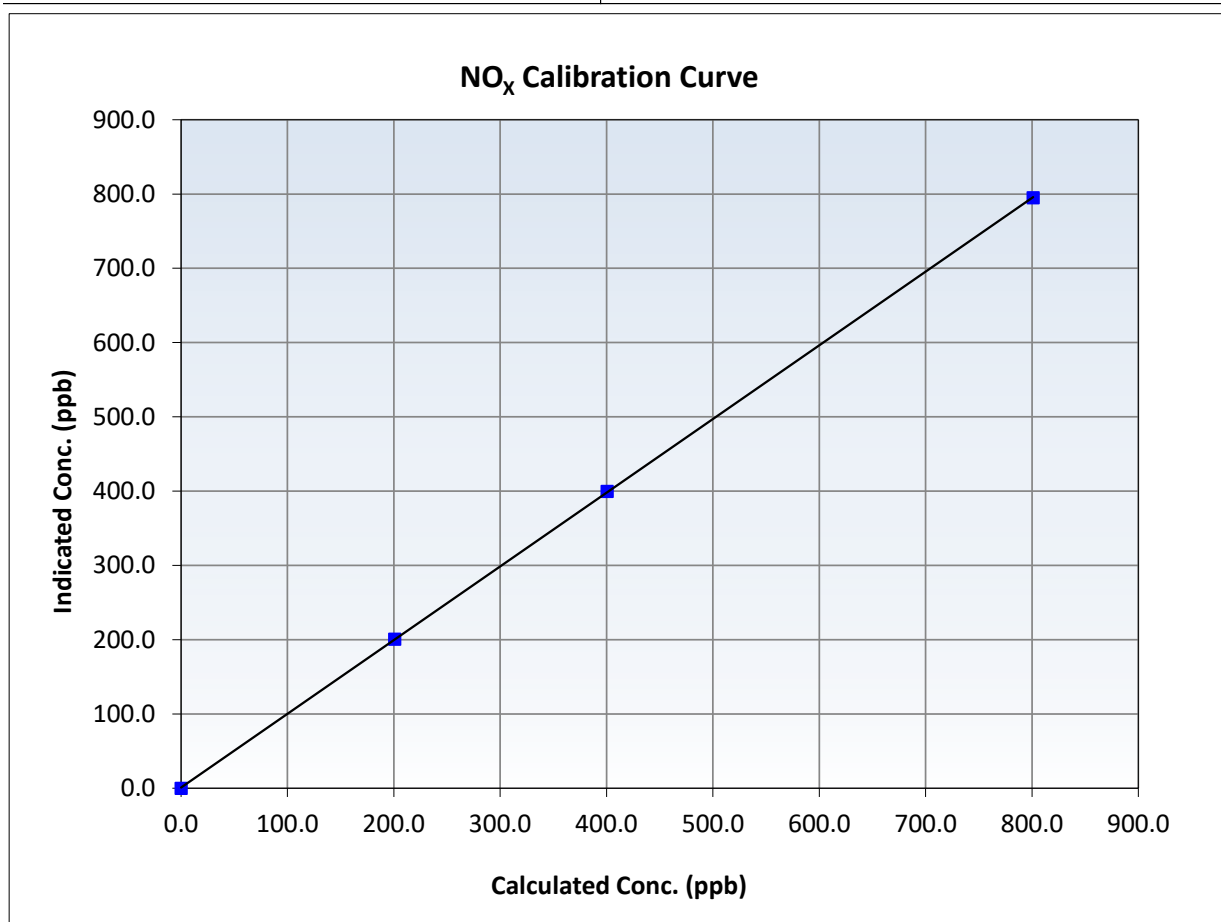
NO_x Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 8, 2026
Station Name:	Mackay River	Station Number:	AMS 20
Start Time (MST):	7:55	End Time (MST):	12:09
Analyzer make:	Thermo 42i	6:50:00 AM	1505164379

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999991	<i>≥0.995</i>
801.1	795.1	1.0076	Slope	0.992221	<i>0.90 - 1.10</i>
400.5	399.5	1.0025	Intercept	0.934400	<i>+/-20</i>
200.9	200.7	1.0009			





Wood Buffalo Environmental Association

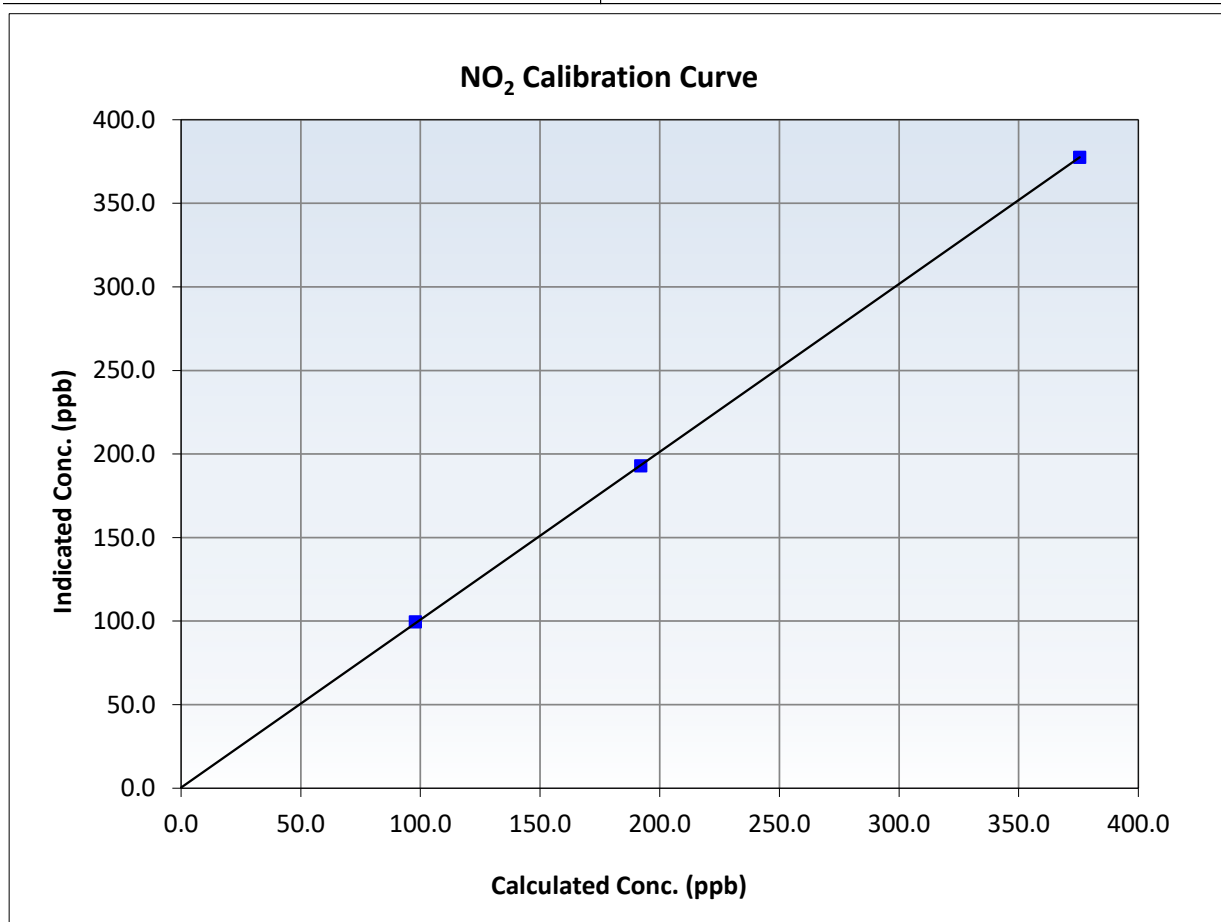
NO₂ Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 8, 2026
Station Name:	Mackay River	Station Number:	AMS 20
Start Time (MST):	7:55	End Time (MST):	12:09
Analyzer make:	Thermo 42i	6:50:00 AM	1505164379

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.1	----	Correlation Coefficient	0.999985	<i>≥0.995</i>
375.5	377.5	0.9947	Slope	1.004468	<i>0.90 - 1.10</i>
192.1	193.0	0.9953	Intercept	0.387662	<i>+/-20</i>
97.9	99.6	0.9829			





Wood Buffalo Environmental Association

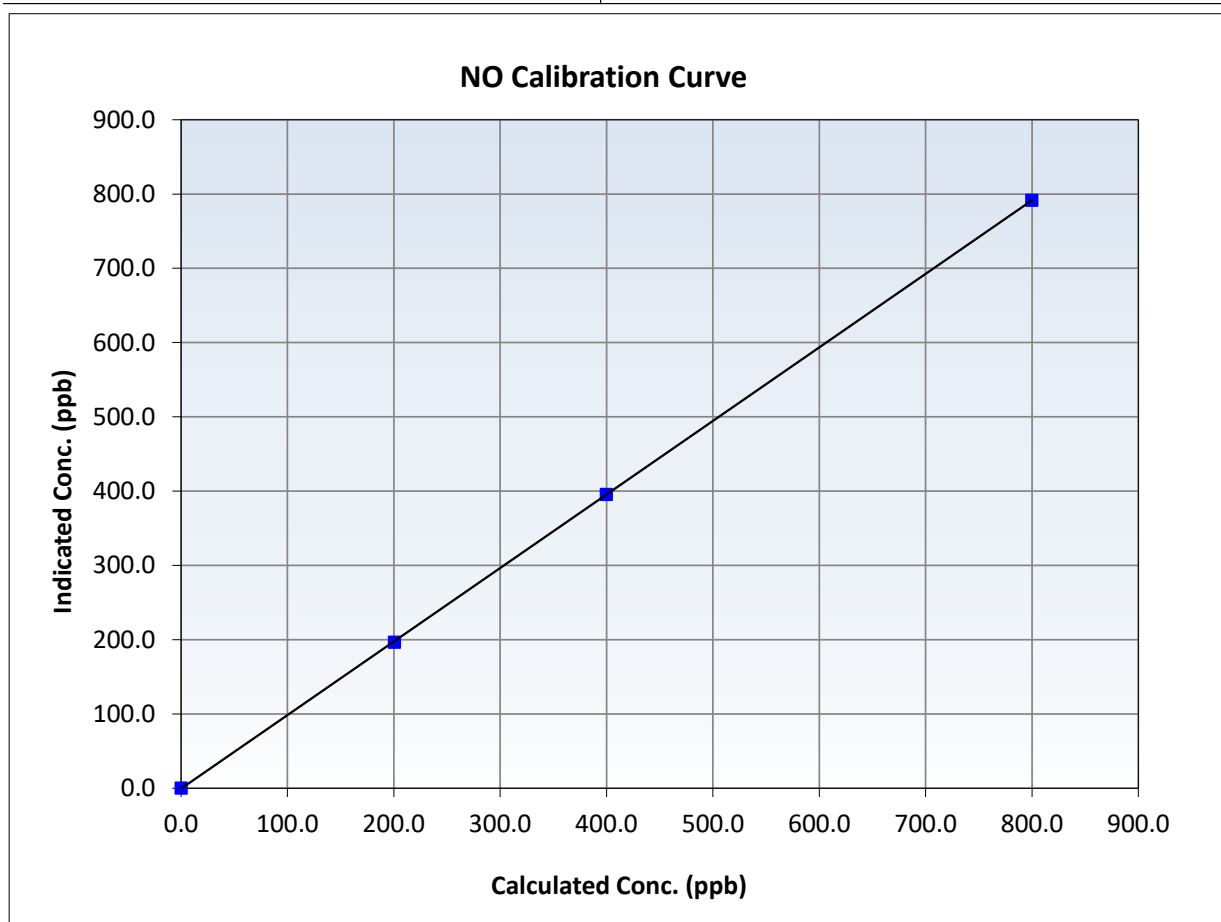
NO Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 8, 2026
Station Name:	Mackay River	Station Number:	AMS 20
Start Time (MST):	7:55	End Time (MST):	12:09
Analyzer make:	Thermo 42i	6:50:00 AM	1505164379

Calibration Data

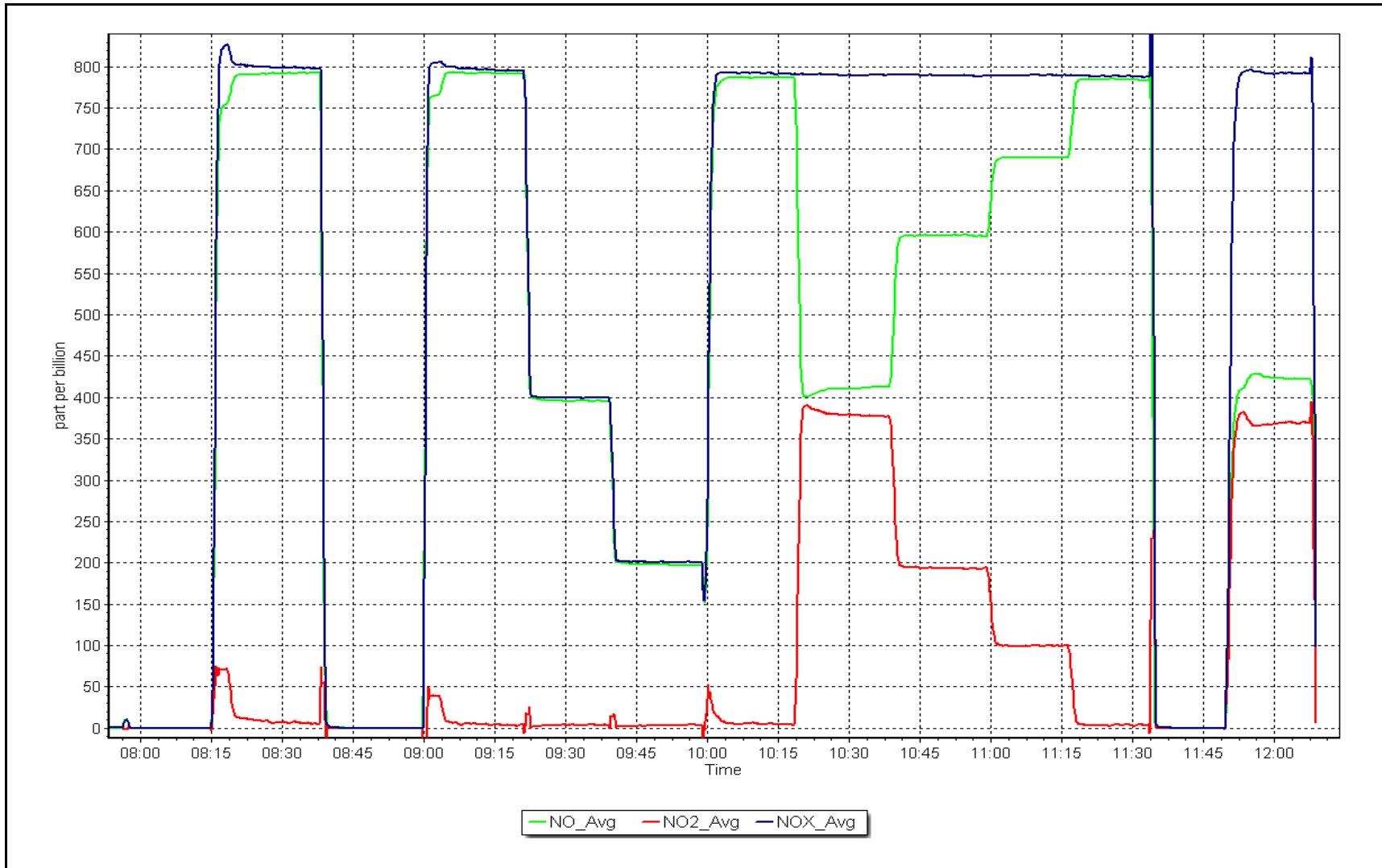
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999994	<i>≥0.995</i>
799.8	791.5	1.0105	Slope	0.990105	<i>0.90 - 1.10</i>
399.9	395.6	1.0107	Intercept	-0.563823	<i>+/-20</i>
200.5	196.8	1.0190			



NO_x Calibration Plot

Date: February 2, 2026

Location: MacKay River





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

**AMS21
CONKLIN
FEBRUARY 2026**

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Conklin	Station number:	AMS 21
Calibration Date:	February 10, 2026	Last Cal Date:	January 13, 2026
Start time (MST):	10:13	End time (MST):	13:15
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.34	ppm	Cal Gas Exp Date:	October 9, 2032
Cal Gas Cylinder #:	CC340840			
Removed Cal Gas Conc:	50.34	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Model:	Teledyne API T700P		Serial Number:	2656
Zero Air Gen Model:	Teledyne API T701H		Serial Number:	355

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	1428701363
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.993292	0.994478	Backgd or Offset:	31.3	31.3
Calibration intercept:	1.698594	2.158324	Coeff or Slope:	0.905	0.905

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.2	----
As found High point	4921	79.5	800.3	794.4	1.007
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	794.6	Previous response	796.7	*% change	-0.3%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.3	----
High point	4921	79.5	800.3	797.4	1.004
Mid point	4960	39.8	400.7	400.2	1.001
Low point	4980	19.9	200.4	205.0	0.977
As left zero	5000	0.0	0.0	-0.3	----
As left span	4921	79.5	800.3	798.3	1.003
Average Correction Factor:					0.994

Notes: Sample inlet filter was changed after as founds. No adjustment made.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

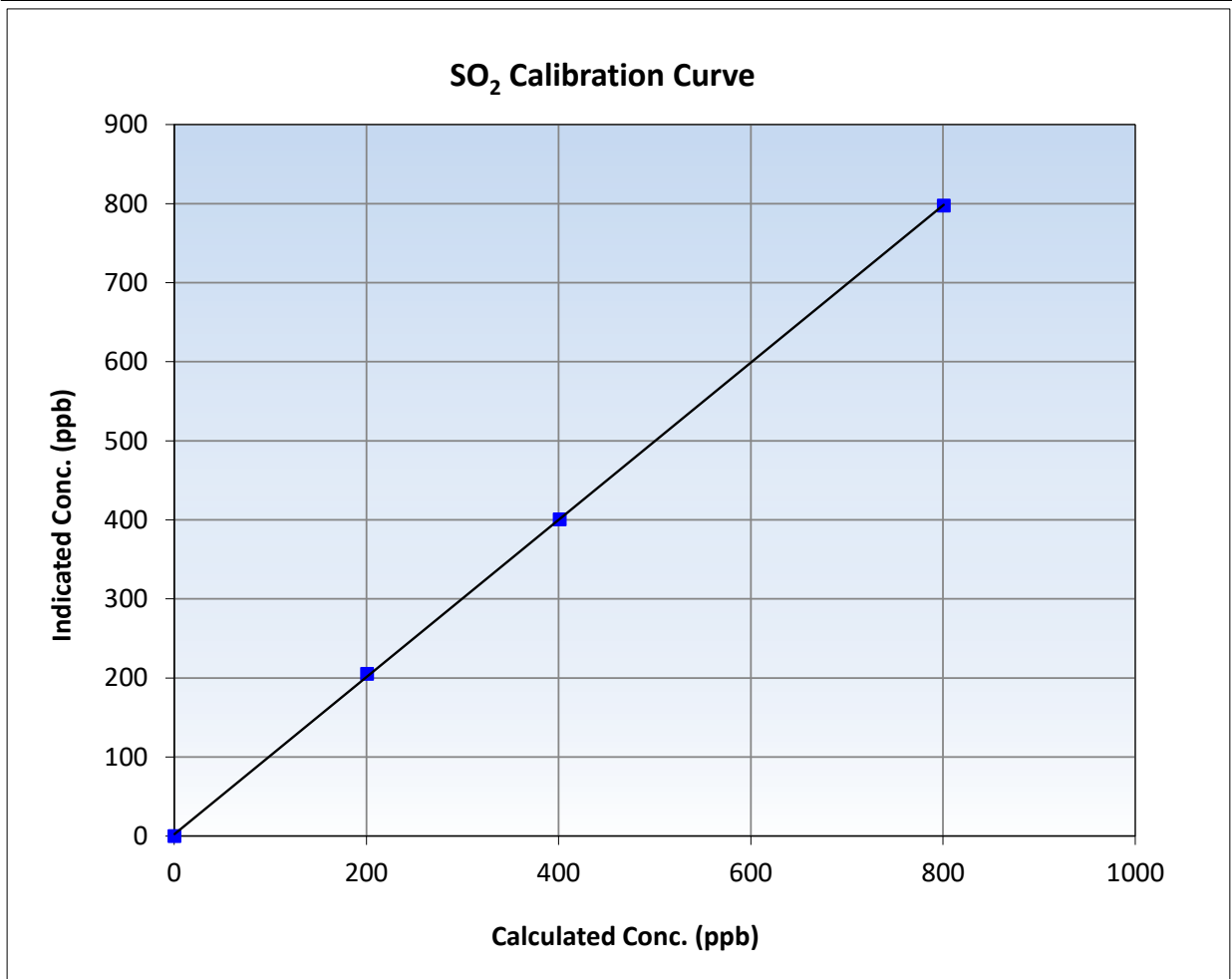
SO₂ Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 13, 2026
Station Name:	Conklin	Station Number:	AMS 21
Start Time (MST):	10:13	End Time (MST):	13:15
Analyzer make:	Thermo 43i	Analyzer serial #:	1428701363

Calibration Data

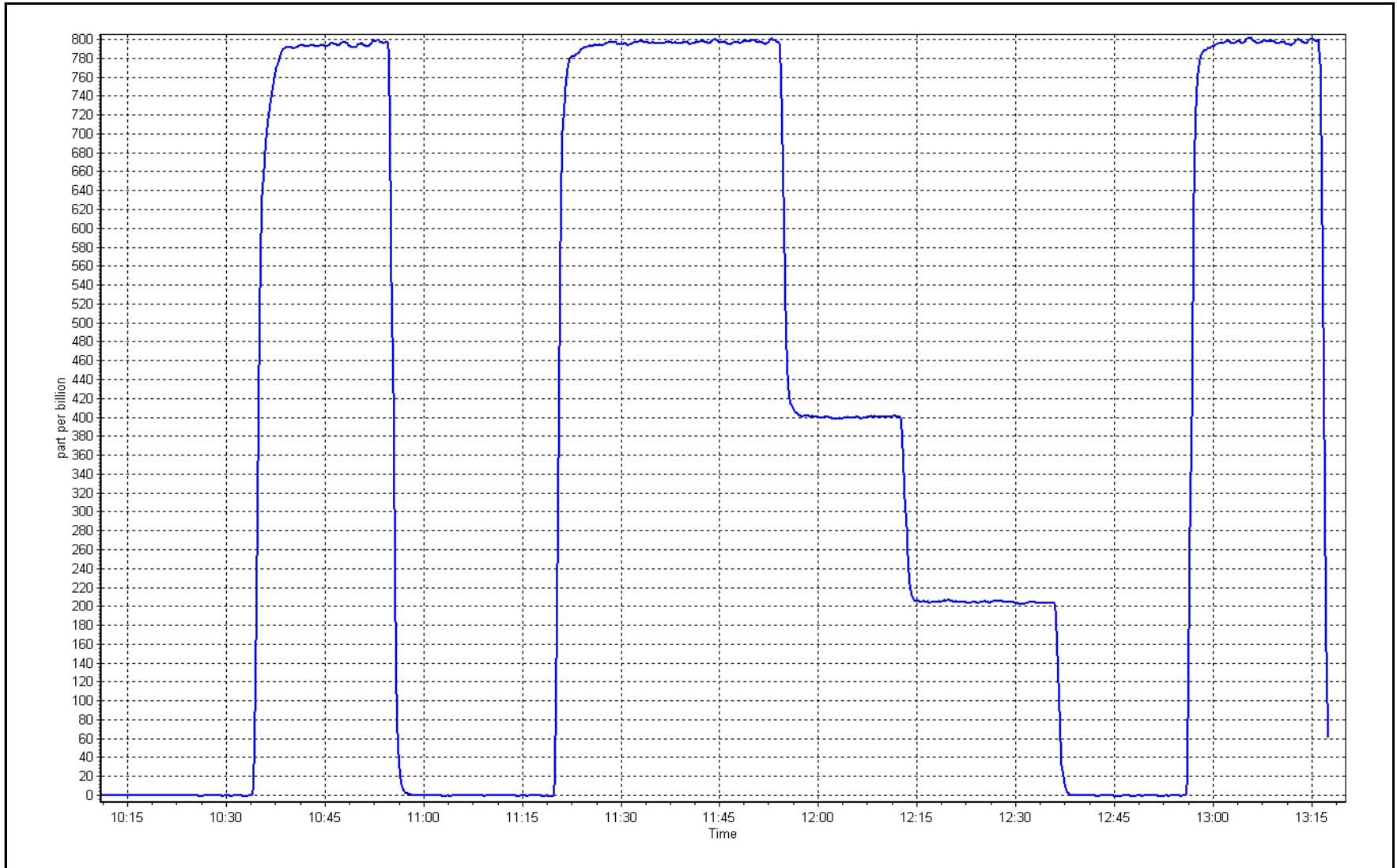
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.3	----	Correlation Coefficient	0.999943	≥0.995
800.3	797.4	1.0037	Slope	0.994478	0.90 - 1.10
400.7	400.2	1.0013	Intercept	2.158324	+/-30
200.4	205.0	0.9774			



SO2 Calibration Plot

Date: February 10, 2026

Location: Conklin





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name:	Conklin	Station number:	AMS 21
Calibration Date:	February 26, 2026	Last Cal Date:	January 28, 2026
Start time (MST):	7:50	End time (MST):	11:52
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	5.06	ppm	Cal Gas Exp Date:	September 22, 2028
Cal Gas Cylinder #:	SA15198			
Removed Cal Gas Conc:	5.06	ppm	Rem Gas Exp Date:	September 22, 2026
Removed Gas Cyl #:	SA15198		Diff between cyl:	
Calibrator Make/Model:	Teledyne T700P		Serial Number:	2656
ZAG Make/Model:	Teledyne T701H		Serial Number:	355

Analyzer Information

Analyzer make:	Thermo 43i-QTL	Analyzer serial #:	12228021058
Converter make:	CD-Nova 101	Converter serial #:	565
Analyzer Range	0 - 100 ppb	Converter Temp:	825 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.997597	1.004159	Backgd or Offset:	3.22	3.22
Calibration intercept:	0.398408	0.140690	Coeff or Slope:	1.441	1.471

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4921	79.1	80.0	78.5	1.021
As found Mid point	4961	39.5	40.0	39.4	1.017
As found Low point	4980	19.7	19.9	20.0	1.002
New cylinder response					
Baseline Corr As found:	78.4	Prev response:	80.25	*% change:	-2.4%
Baseline Corr 2nd AF pt:	39.3	AF Slope:	0.978034	AF Intercept:	0.279770
Baseline Corr 3rd AF pt:	19.9	AF Correlation:	0.999974	<i>* = > +/-5% change initiates investigation</i>	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.1	----
High point	4921	79.1	80.0	80.5	0.994
Mid point	4961	39.5	40.0	40.3	0.992
Low point	4980	19.7	19.9	20.2	0.987
As left zero	5000	0.0	0.0	0.1	----
As left span	4921	79.1	80.0	80.4	0.996
SO2 Scrubber Check	4921	79.5	794.9	0.0	----
Date of last scrubber change:	August 6, 2025			Ave Corr Factor	0.991
Date of last converter efficiency test:	October 7, 2025				

Notes: Sox scrubber checked after calibrator zero. Span adjusted.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

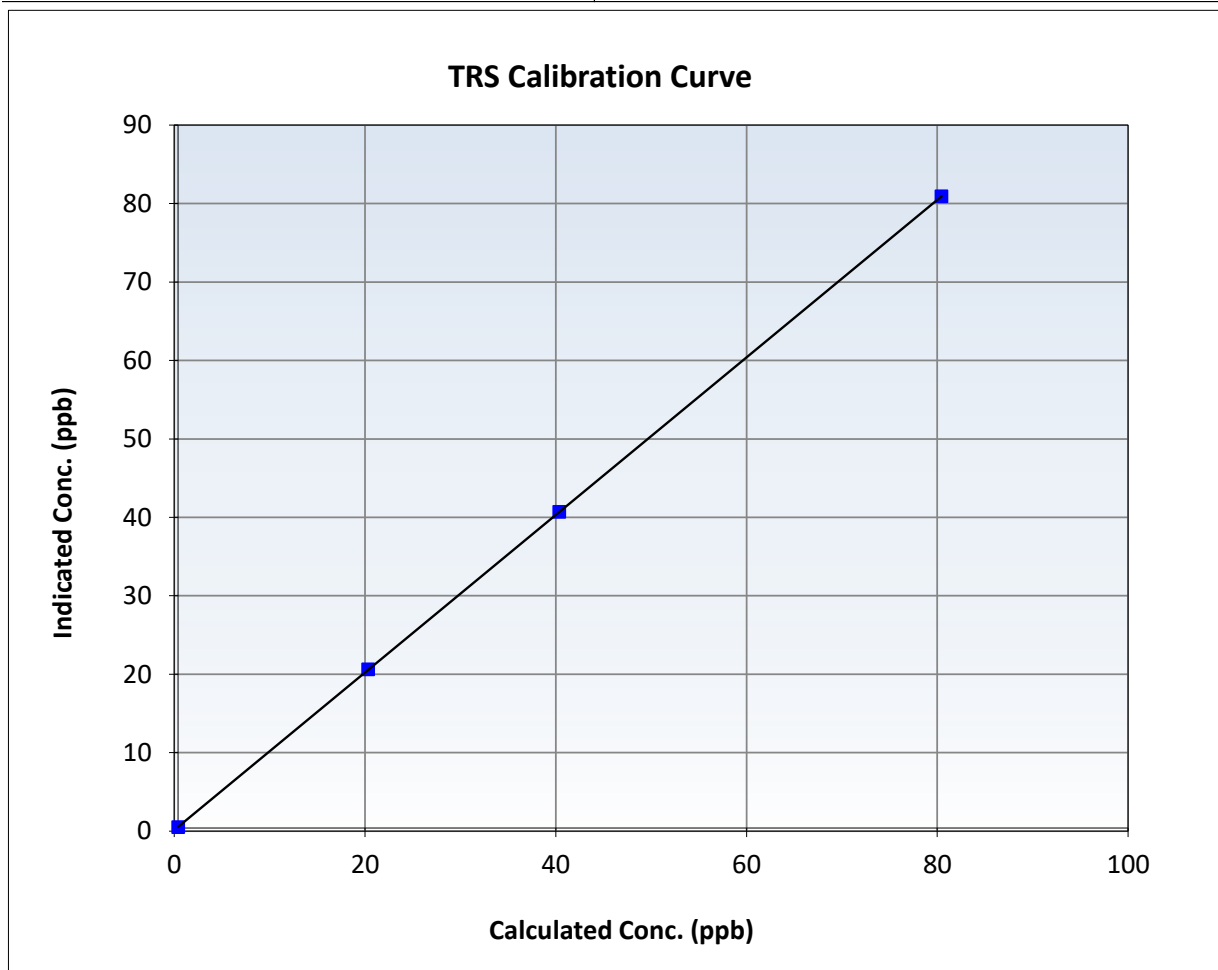
TRS Calibration Summary

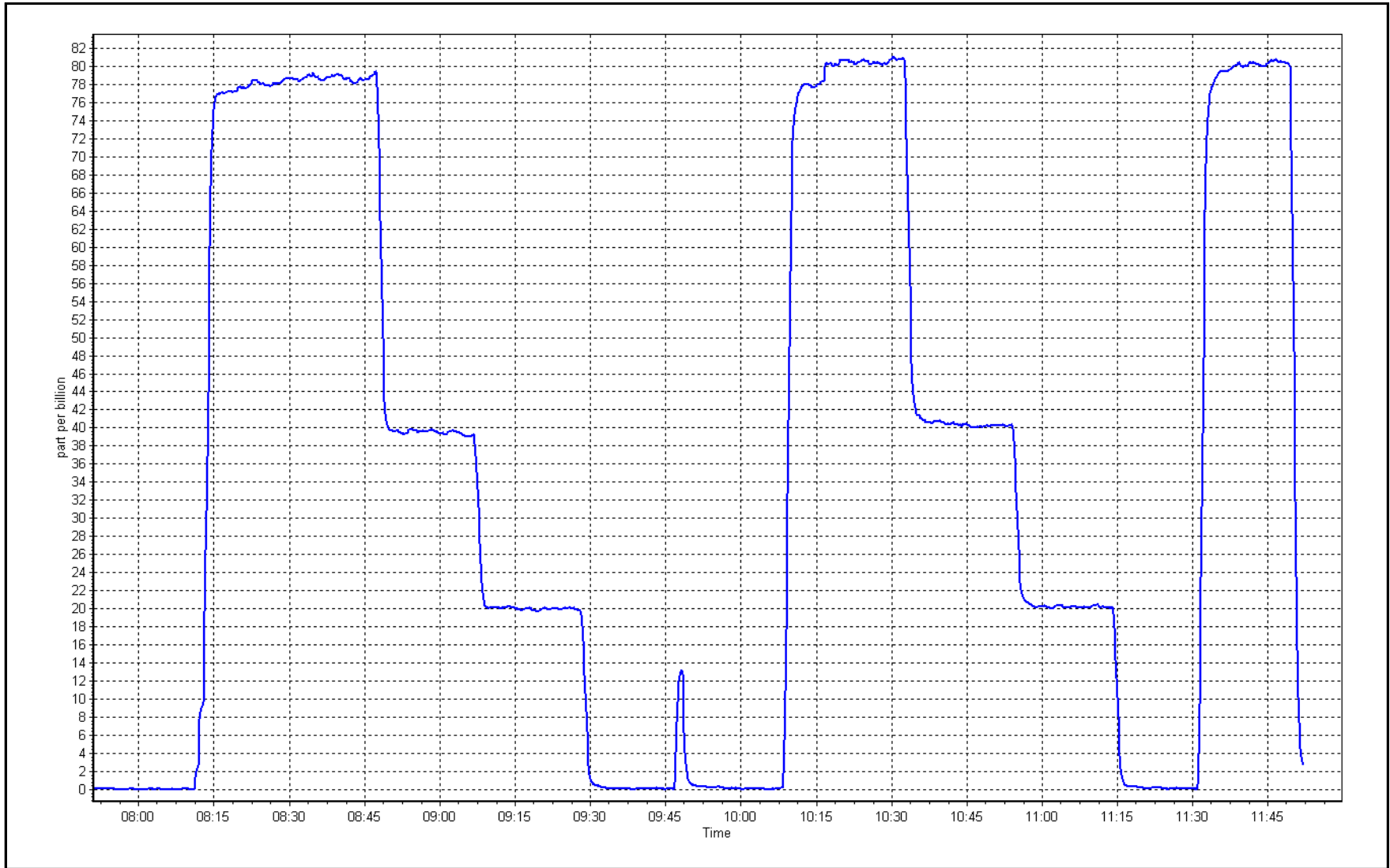
Station Information

Calibration Date:	February 26, 2026	Previous Calibration:	January 28, 2026
Station Name:	Conklin	Station Number:	AMS 21
Start Time (MST):	7:50	End Time (MST):	11:52
Analyzer make:	Thermo 43i-QTL	Analyzer serial #:	12228021058

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.1	----	Correlation Coefficient	0.999999	≥ 0.995
80.0	80.5	0.9944	Slope	1.004159	$0.90 - 1.10$
40.0	40.3	0.9918	Intercept	0.140690	± 3
19.9	20.2	0.9870			







Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Conklin	Station number:	AMS 21
Calibration Date:	February 10, 2026	Last Cal Date:	January 26, 2026
Start time (MST):	10:13	End time (MST):	13:15
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC340840	Cal Gas Expiry Date:	October 9, 2032
CH4 Cal Gas Conc.	503.8 ppm	CH4 Equiv Conc.	1067.6 ppm
C3H8 Cal Gas Conc.	205.0 ppm		
Removed Gas Cert:	NA	Removed Gas Expiry:	NA
Removed CH4 Conc.	503.8 ppm	CH4 Equiv Conc.	1067.6 ppm
Removed C3H8 Conc.	205.0 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API T700P	Serial Number:	2656
Zero Air Gen model:	Teledyne API T701H	Serial Number:	355

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1180320039
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	2.20E-04	2.22E-04	4.89E-05	5.05E-05
CH4 Retention time:	15.0	15.0	183348	177303
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	79.5	16.97	16.72	1.015
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.72	Prev response	16.98	*% change	-1.6%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	79.5	16.97	16.98	1.000
Mid point	4960	39.8	8.50	8.53	0.996
Low point	4980	19.9	4.25	4.36	0.975
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	79.5	16.97	17.03	0.997
Average Correction Factor					0.990

Notes: Sample inlet filter and H2 was changed after as founds. Adjusted span only.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	79.5	8.96	8.72	1.027
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.72	Prev response	8.97	*% change	-2.8%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	79.5	8.96	8.96	1.001
Mid point	4960	39.8	4.49	4.52	0.993
Low point	4980	19.9	2.24	2.31	0.971
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	79.5	8.96	9.00	0.996
Average Correction Factor					0.988

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	79.5	8.01	7.99	1.002
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.99	Prev response	8.01	*% change	-0.3%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	79.5	8.01	8.02	0.999
Mid point	4960	39.8	4.01	4.01	1.000
Low point	4980	19.9	2.01	2.05	0.980
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	79.5	8.01	8.03	0.998
Average Correction Factor					0.993

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.998113	0.998518
THC Cal Offset:	0.043687	0.047679
CH ₄ Cal Slope:	0.999165	0.999736
CH ₄ Cal Offset:	0.011380	0.014376
NMHC Cal Slope:	0.997276	0.997187
NMHC Cal Offset:	0.031907	0.033503

Calibration Performed By: Jan Castro



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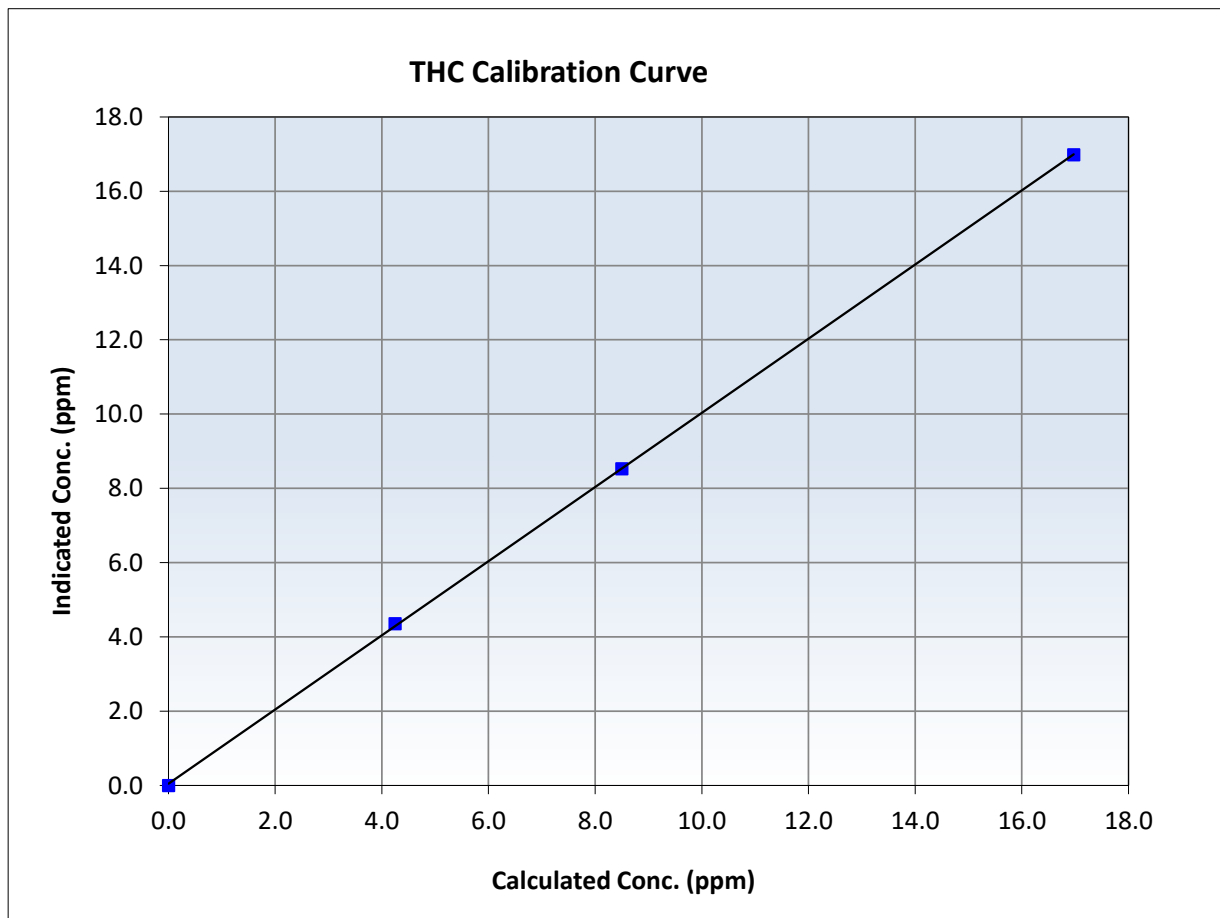
THC Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 26, 2026
Station Name:	Conklin	Station Number:	AMS 21
Start Time (MST):	10:13	End Time (MST):	13:15
Analyzer make:	Thermo 55i	Analyzer serial #:	1180320039

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999957	<i>≥0.995</i>
16.97	16.98	0.9995	Slope	0.998518	<i>0.90 - 1.10</i>
8.50	8.53	0.9963	Intercept	0.047679	<i>+/-0.5</i>
4.25	4.36	0.9754			





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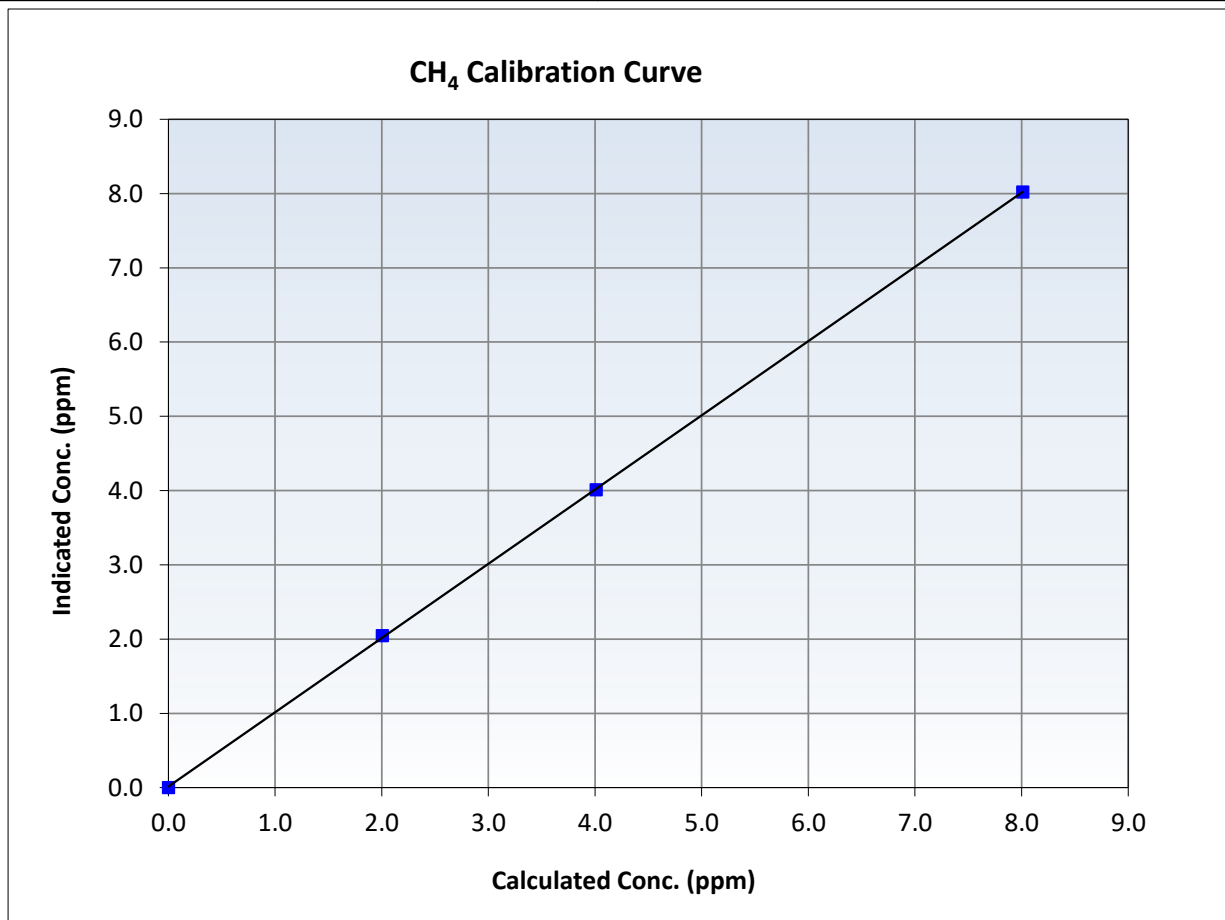
CH₄ Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 26, 2026
Station Name:	Conklin	Station Number:	AMS 21
Start Time (MST):	10:13	End Time (MST):	13:15
Analyzer make:	Thermo 55i	Analyzer serial #:	1180320039

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999969	<i>≥0.995</i>
8.01	8.02	0.9986	Slope	0.999736	<i>0.90 - 1.10</i>
4.01	4.01	0.9996	Intercept	0.014376	<i>+/-0.5</i>
2.01	2.05	0.9800			





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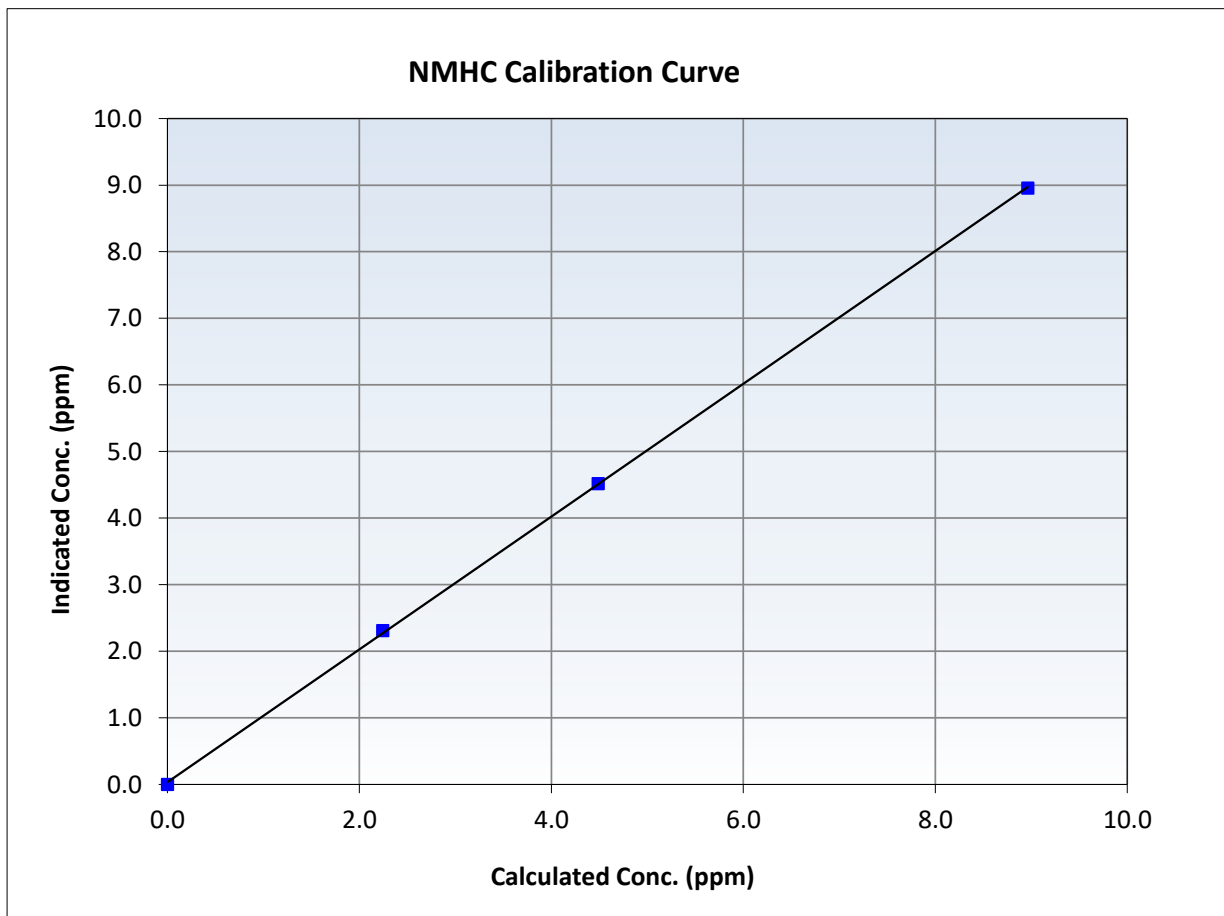
NMHC Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 26, 2026
Station Name:	Conklin	Station Number:	AMS 21
Start Time (MST):	10:13	End Time (MST):	13:15
Analyzer make:	Thermo 55i	Analyzer serial #:	1180320039

Calibration Data

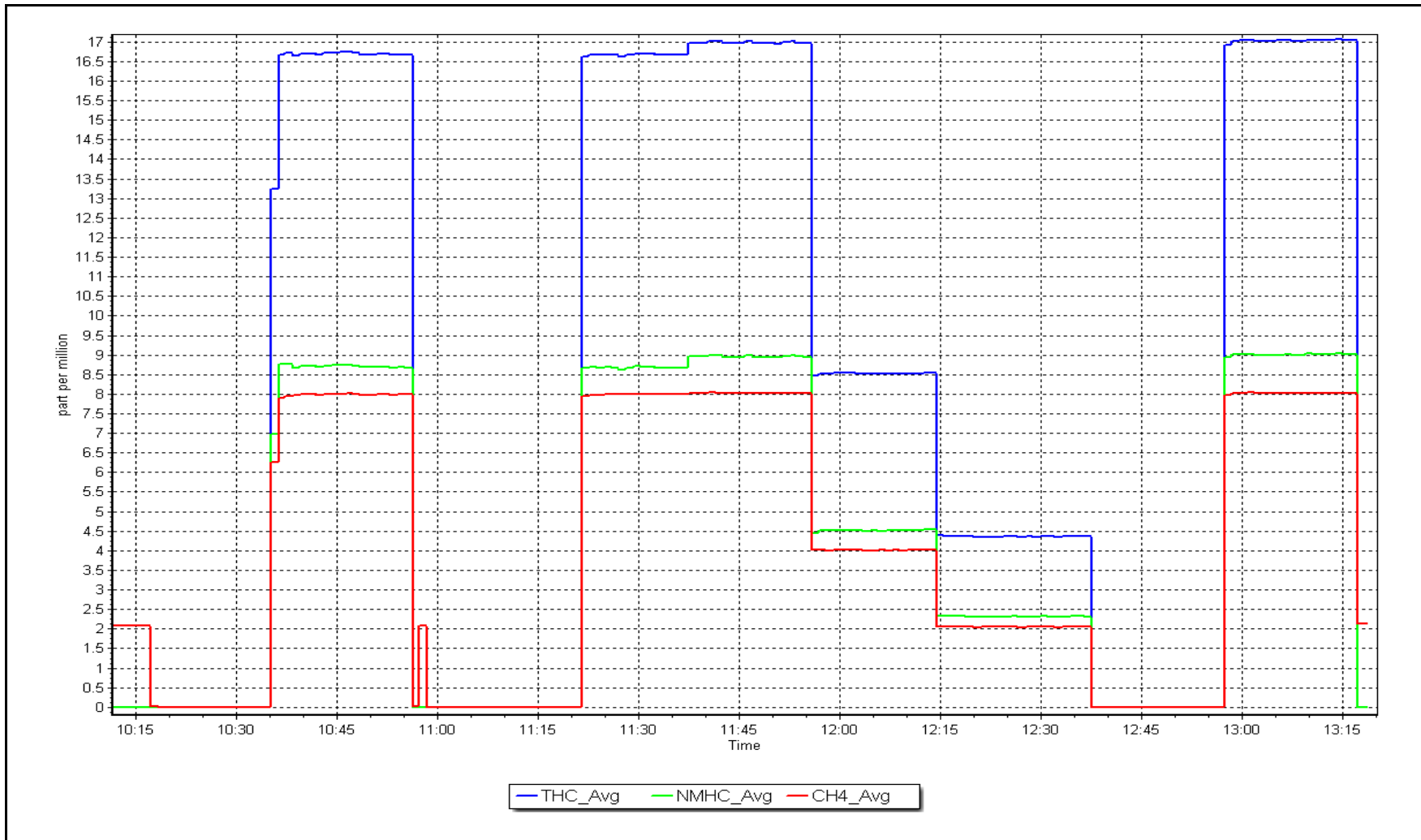
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999933	<i>≥0.995</i>
8.96	8.96	1.0006	Slope	0.997187	<i>0.90 - 1.10</i>
4.49	4.52	0.9935	Intercept	0.033503	<i>+/-0.5</i>
2.24	2.31	0.9713			



NMHC Calibration Plot

Date: February 10, 2026

Location: Conklin





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Conklin
 Station number: AMS 21
 Calibration Date: February 25, 2026
 Last Cal Date: January 29, 2026
 Start time (MST): 8:14
 End time (MST): 12:35
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: SA18828
 NOX Cal Gas Conc: 48.90 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 48.90 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701
 Cal Gas Expiry Date: November 3, 2031
 NO Cal Gas Conc: 48.80 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 48.80 ppm
 NO gas Diff:
 Serial Number: 2656
 Serial Number: 355

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.3	-0.4	0.1	----	----
AF High point	4918	82.0	802.0	800.3	1.6	798.4	794.7	3.7	1.0041	1.0066
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 805.1 ppb		NO = 802.1 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -0.8%	
Baseline Corr 1st pt	NO _x = 798.7 ppb		NO = 795.1 ppb			<u>As Found Statistics</u>		*Percent Change	NO = -0.9%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found NO _x r ² :		Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found NO r ² :		NO SI:	NO Int:	
						As found NO ₂ r ² :		NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1218153356

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	1.000283	0.993856
NO _x Cal Offset:	2.948086	3.128044
NO Cal Slope:	0.999849	0.993622
NO Cal Offset:	1.868045	1.847999
NO ₂ Cal Slope:	1.002625	1.001661
NO ₂ Cal Offset:	0.250230	-0.753732

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.617	0.617	NO bkgnd or offset:	3.4	2.9
NOX coeff or slope:	0.996	0.996	NOX bkgnd or offset:	3.4	3.0
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	160.6	160.6

Dilution Calibration Data

Set Point	Dilution flow rate (scm)	Source gas flow rate (scm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.2	0.2	0.0	----	----
High point	4918	82.0	802.0	800.3	1.6	799.1	796.6	2.5	1.0036	1.0047
Mid point	4959	41.0	401.0	400.2	0.8	401.9	399.2	2.6	0.9977	1.0024
Low point	4980	20.5	200.5	200.1	0.4	206.1	203.0	3.1	0.9727	0.9855
As left zero	5000	0.0	0.0	0.0	0.0	0.2	0.2	0.0	----	----
As left span	4918	82.0	802.0	385.9	416.1	795.6	385.9	409.7	1.0080	1.0000
Average Correction Factor									0.9913	0.9975

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.0	----	----
High GPT point	795.3	387.8	409.1	409.5	0.9991	100.1%
Mid GPT point	795.3	590.7	206.2	205.3	1.0046	99.5%
Low GPT point	795.3	692.9	104.0	102.8	1.0121	98.8%
Average Correction Factor					1.0053	99.5%

Notes:

No maintenance done. Zero adjusted.

Calibration Performed By:

Melissa Lemay



Wood Buffalo Environmental Association

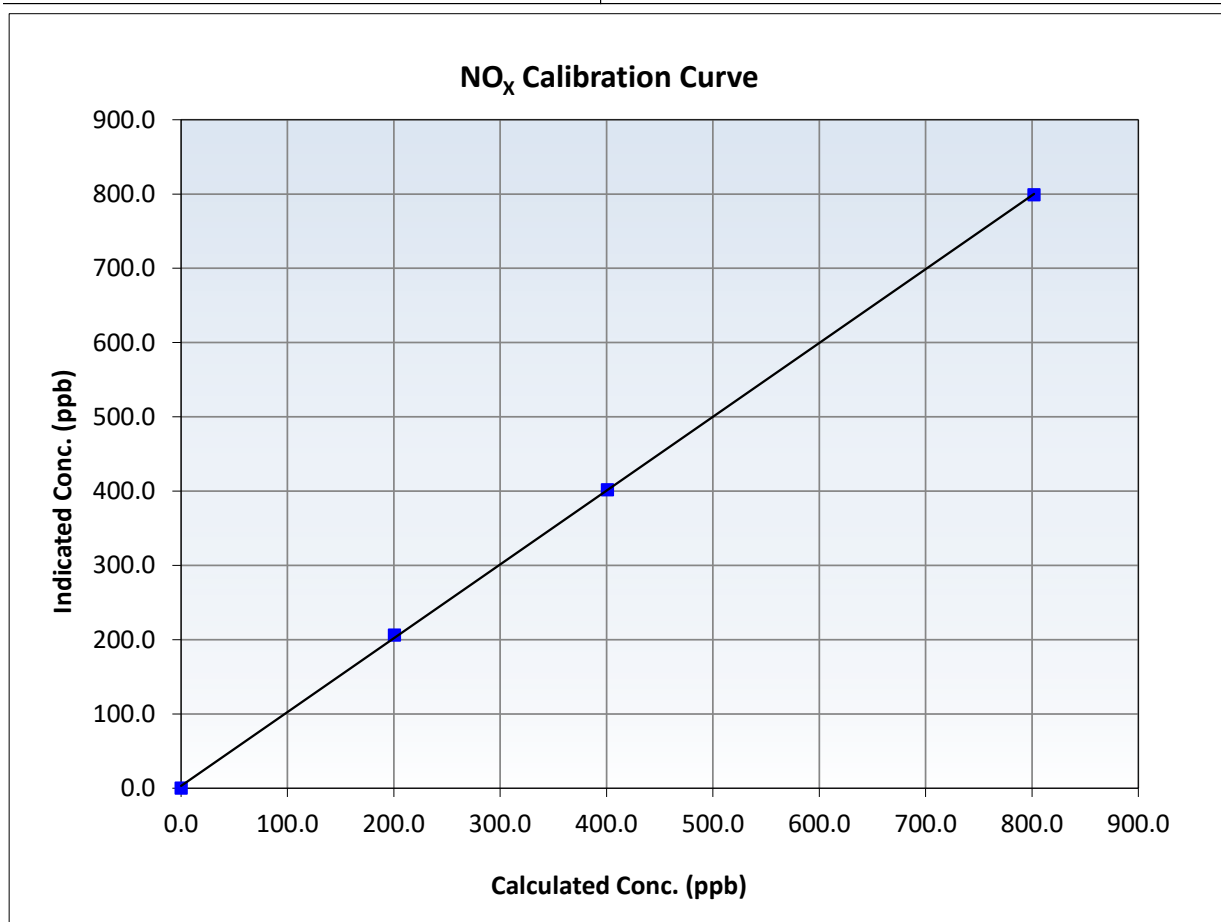
NO_x Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 29, 2026
Station Name:	Conklin	Station Number:	AMS 21
Start Time (MST):	8:14	End Time (MST):	12:35
Analyzer make:	Thermo 42i	Analyzer serial #:	1218153356

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999932	≥0.995
802.0	799.1	1.0036	Slope	0.993856	0.90 - 1.10
401.0	401.9	0.9977	Intercept	3.128044	+/-20
200.5	206.1	0.9727			





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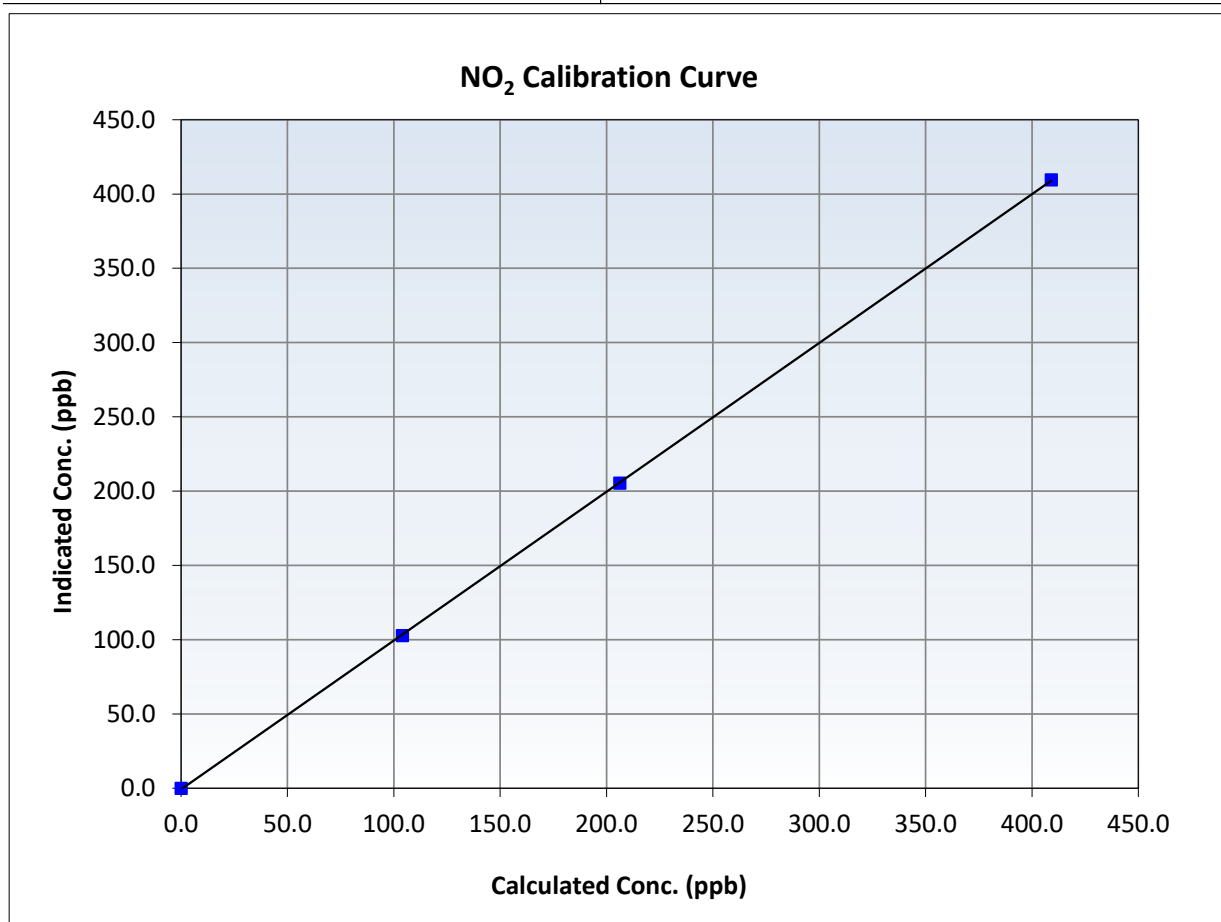
NO₂ Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 29, 2026
Station Name:	Conklin	Station Number:	AMS 21
Start Time (MST):	8:14	End Time (MST):	12:35
Analyzer make:	Thermo 42i	Analyzer serial #:	1218153356

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999984	<i>≥0.995</i>
409.1	409.5	0.9991	Slope	1.001661	<i>0.90 - 1.10</i>
206.2	205.3	1.0046	Intercept	-0.753732	<i>+/-20</i>
104.0	102.8	1.0121			





Wood Buffalo Environmental Association

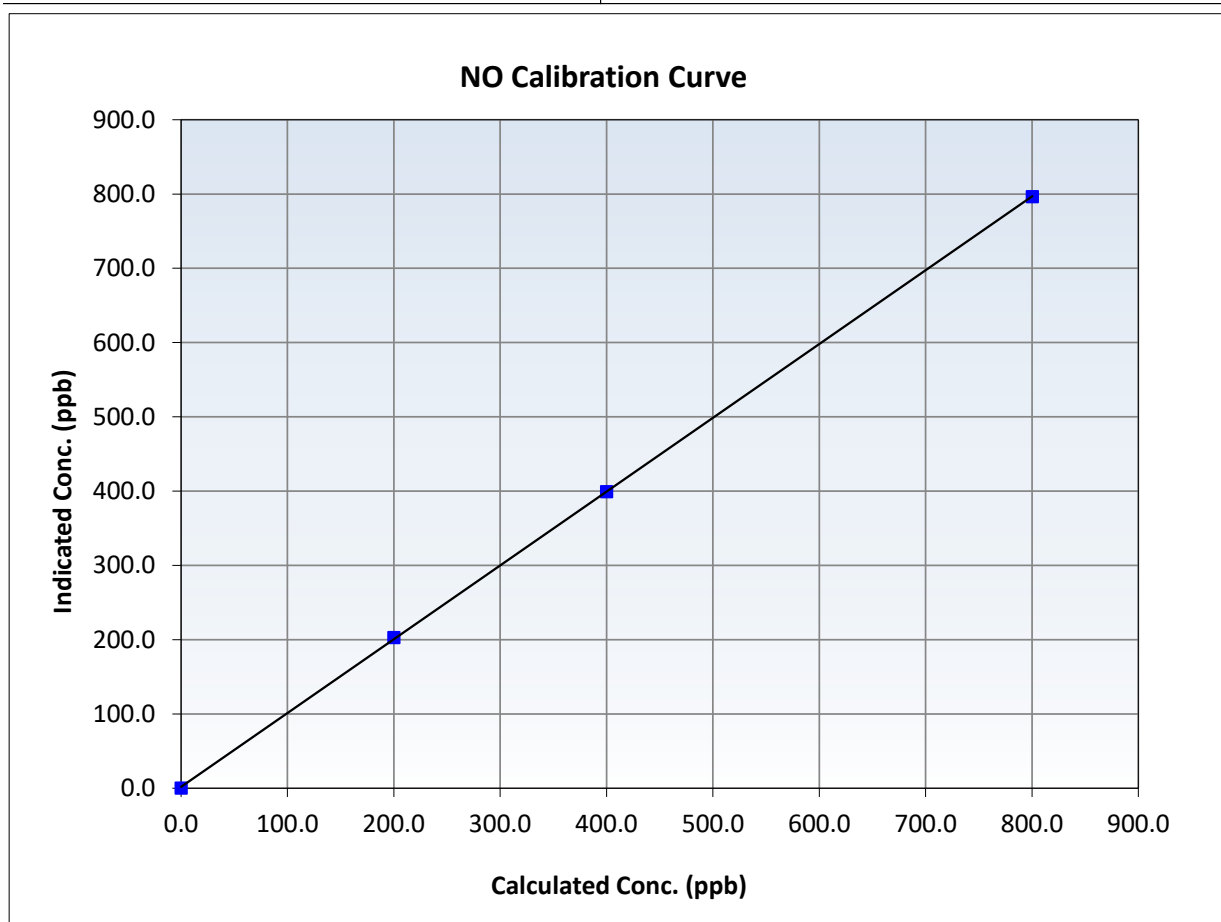
NO Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 29, 2026
Station Name:	Conklin	Station Number:	AMS 21
Start Time (MST):	8:14	End Time (MST):	12:35
Analyzer make:	Thermo 42i	Analyzer serial #:	1218153356

Calibration Data

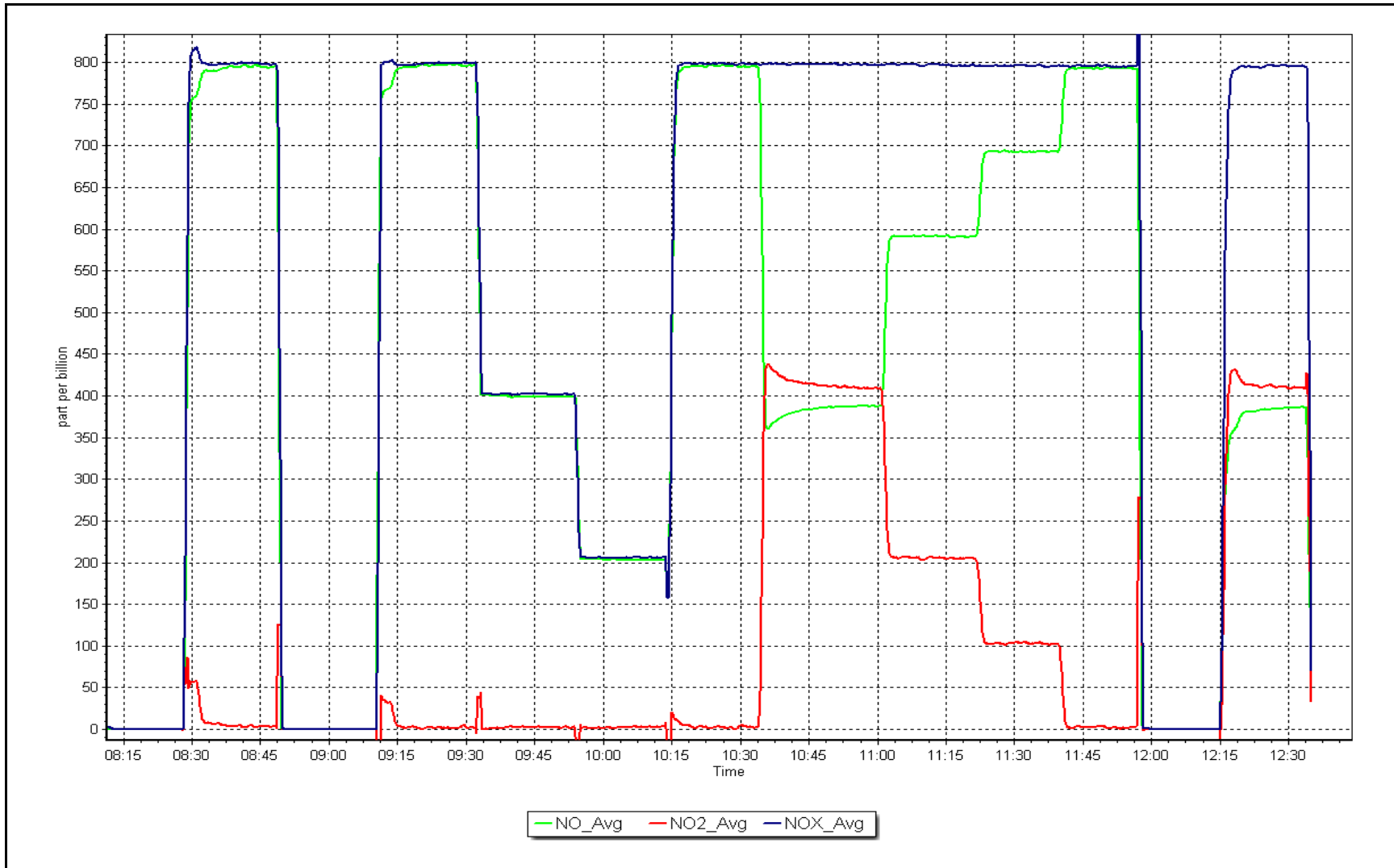
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999975	<i>≥0.995</i>
800.3	796.6	1.0047	Slope	0.993622	<i>0.90 - 1.10</i>
400.2	399.2	1.0024	Intercept	1.847999	<i>+/-20</i>
200.1	203.0	0.9855			



NO_x Calibration Plot

Date: February 25, 2026

Location: Conklin





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Conklin	Station number:	AMS 21
Calibration Date:	February 13, 2026	Last Cal Date:	January 8, 2026
Start time (MST):	10:39	End time (MST):	13:29
Reason:	Routine		

Calibration Standards

O ₃ generation mode:	Photometer	Serial Number:	2656
Calibrator Make/Model:	Teledyne API T700P	Serial Number:	355
ZAG Make/Model:	Teledyne API T701H		

Analyzer Information

Analyzer make:	Thermo 49i	Analyzer serial #:	1300156233
Analyzer Range	0 - 500 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.993286	0.998714	Backgd or Offset:	-0.2	0.2
Calibration intercept:	1.100000	0.900000	Coeff or Slope:	1.229	1.229

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	800.0	0.0	0.0	----
As found High point	5000	1036.7	400.0	400.4	0.999
As found Mid point					
As found Low point					
Baseline Corr As found:	400.4	Previous response	398.4	*% change	0.5%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	800.0	0.0	0.1	----
High point	5000	1038.8	400.0	400.0	1.000
Mid point	5000	864.5	200.0	201.0	0.995
Low point	5000	748.0	100.0	101.6	0.984
As left zero	5000	800.0	0.0	0.1	----
As left span	5000	1033.9	400.0	404.1	0.990
Average Correction Factor					0.993

Notes: Sample inlet filter was changed after as founds. Adjusted zero only.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

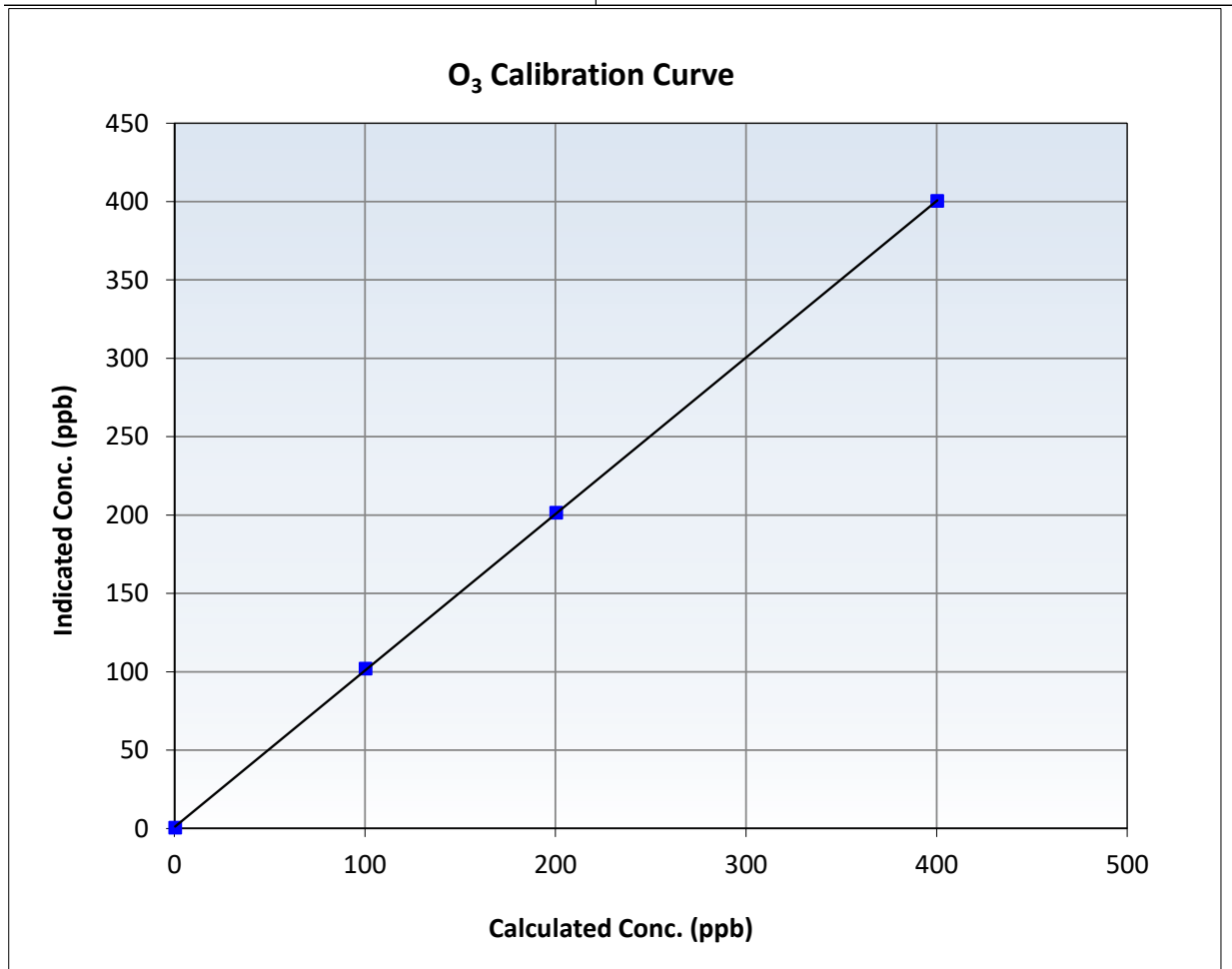
O₃ Calibration Summary

Station Information

Calibration Date:	February 13, 2026	Previous Calibration:	January 8, 2026
Station Name:	Conklin	Station Number:	AMS 21
Start Time (MST):	10:39	End Time (MST):	13:29
Analyzer make:	Thermo 49i	Analyzer serial #:	1300156233

Calibration Data

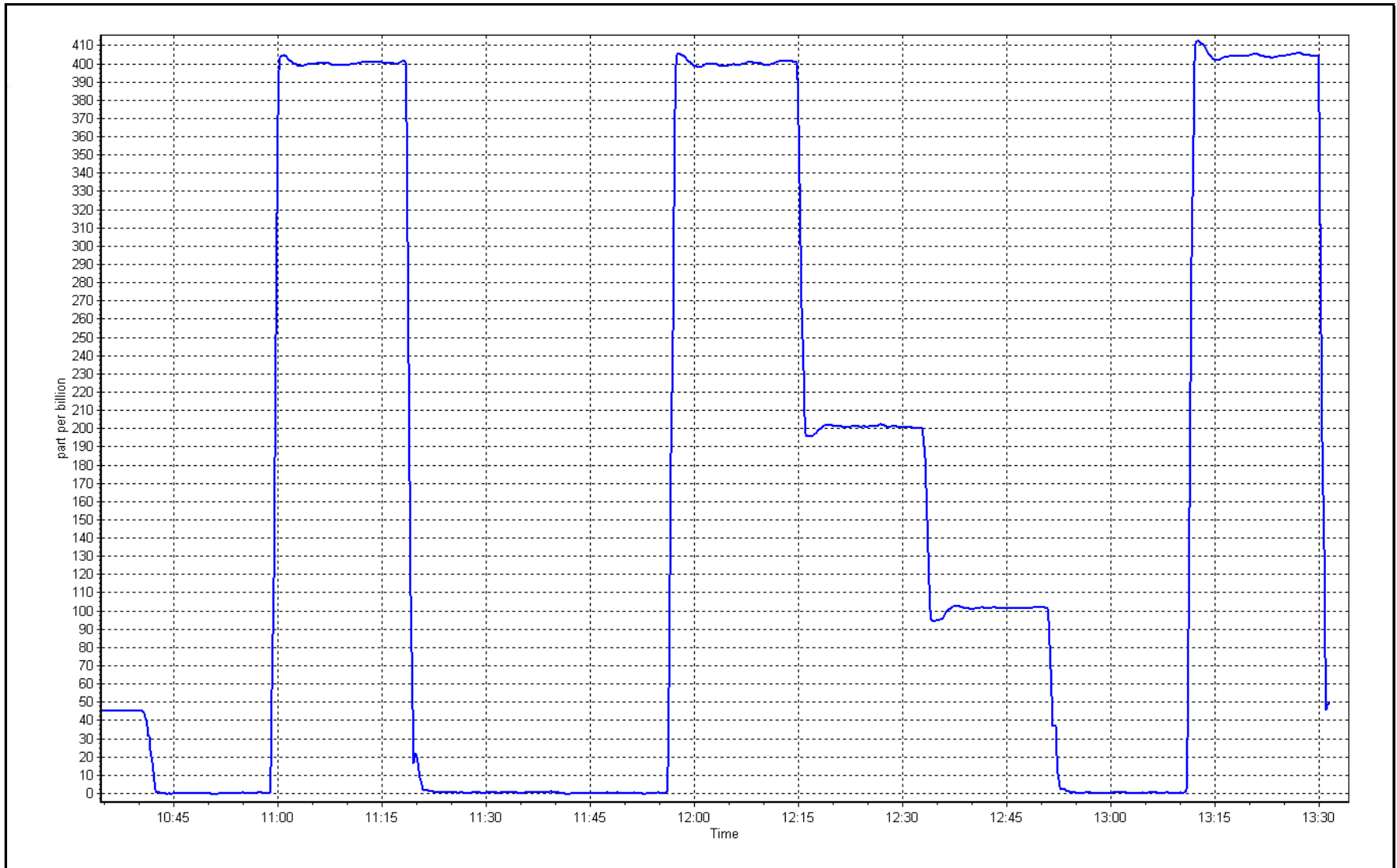
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.1	----	Correlation Coefficient	0.999982	≥0.995
400.0	400.0	1.0000	Slope	0.998714	0.90 - 1.10
200.0	201.0	0.9950	Intercept	0.900000	+/- 5
100.0	101.6	0.9843			



O₃ Calibration Plot

Date: February 13, 2026

Location: Conklin





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Conklin Station number: AMS 21
 Calibration Date: February 26, 2026 Last Cal Date: January 28, 2026
 Start time (MST): 8:05 End time (MST): 9:06

Analyzer Make: API T640 S/N: 1266
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388753
 Temp/RH standard: Alicat FP-25BT S/N: 388753

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-8.10	-9.60	-8.10	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	692.10	695.10	692.10	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	4.99	5.08	4.99	<input type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	49	----	49	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	3.90	PM w/ HEPA: _____	0.00	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: 10.90 Expiry Date: July 16, 2026
 Lot No.: 100128-050-040

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test	10.60	11.10	11.10	<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: February 26, 2026
 Date Disposable Filter Changed: February 26, 2026

Post- maintenance Zero Verification: PM w/ HEPA: 0.00 <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: February 26, 2026
 Date RH/T Sensor Cleaned: February 26, 2026

Notes: Flow, Leak and PMT checked before and after optical chamber cleaning. No adjustments done. Filter changed out.

Calibration by: Jan Castro



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

**AMS22
JANVIER
FEBRUARY 2026**

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Janvier	Station number:	AMS 22
Calibration Date:	February 2, 2026	Last Cal Date:	January 21, 2026
Start time (MST):	12:45	End time (MST):	16:30
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	49.82	ppm	Cal Gas Exp Date:	April 9, 2033
Cal Gas Cylinder #:	CC494522			
Removed Cal Gas Conc:	49.82	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Model:	Teledyne API T700		Serial Number:	3806
Zero Air Gen Model:	Teledyne API T701		Serial Number:	691

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	1152430006
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.000705	0.999748	Backgd or Offset:	28.4	28.0
Calibration intercept:	0.235416	0.195617	Coeff or Slope:	1.049	1.029

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4920	80.3	800.1	811.1	0.987
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	811.0	Previous response	800.9	*% change	1.3%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		<i>* = > +/-5% change initiates investigation</i>	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.3	----
High point	4920	80.3	800.1	799.7	1.000
Mid point	4960	40.2	400.5	401.2	0.998
Low point	4980	20.1	200.3	200.7	0.998
As left zero	5000	0.0	0.0	0.5	----
As left span	4920	80.3	800.1	799.3	1.001
Average Correction Factor:					0.999

Notes: Changed the inlet filter after as founds. Adjusted the span.

Calibration Performed By: Rene Chamberland



Wood Buffalo Environmental Association

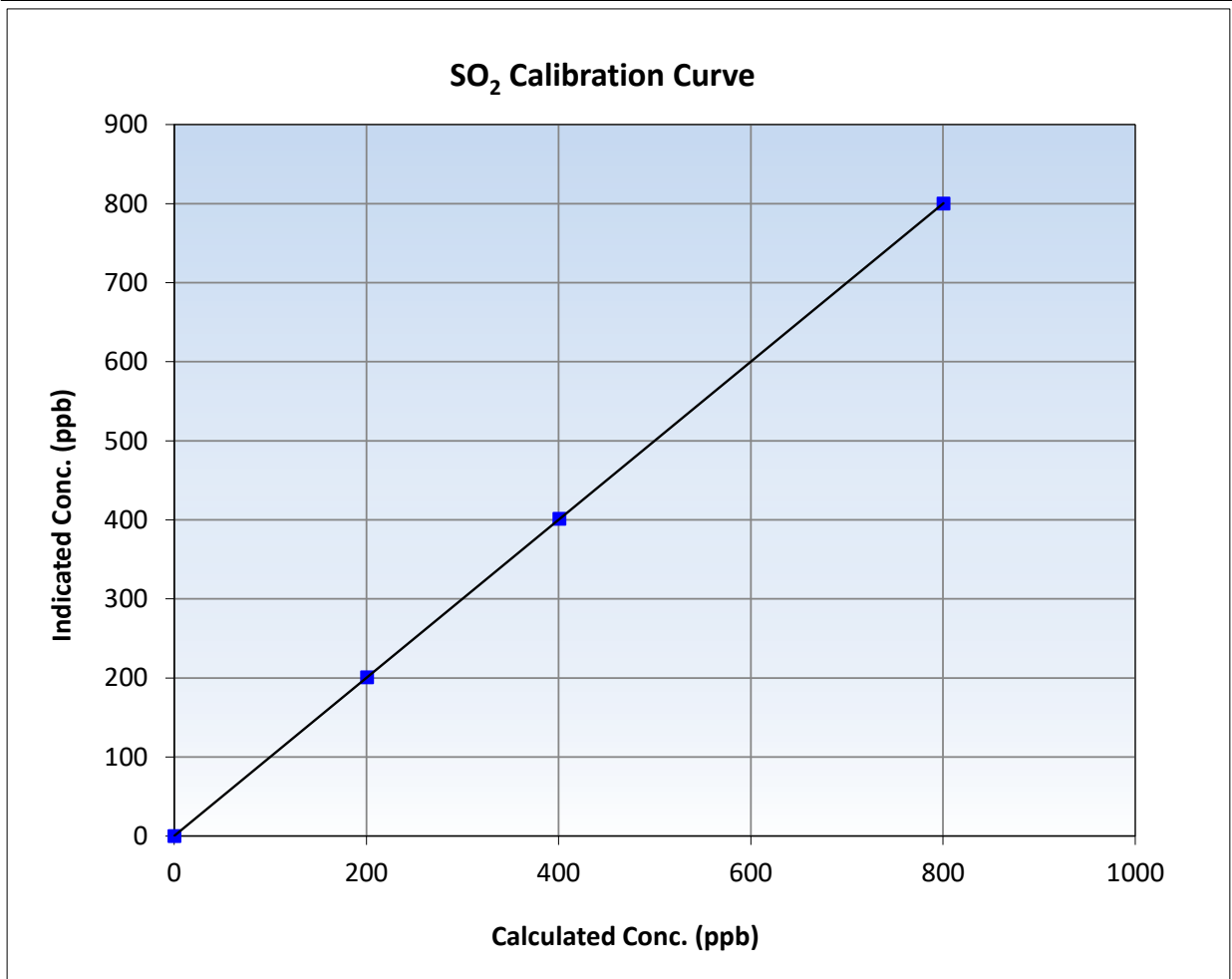
SO₂ Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 21, 2026
Station Name:	Janvier	Station Number:	AMS 22
Start Time (MST):	12:45	End Time (MST):	16:30
Analyzer make:	Thermo 43i	Analyzer serial #:	1152430006

Calibration Data

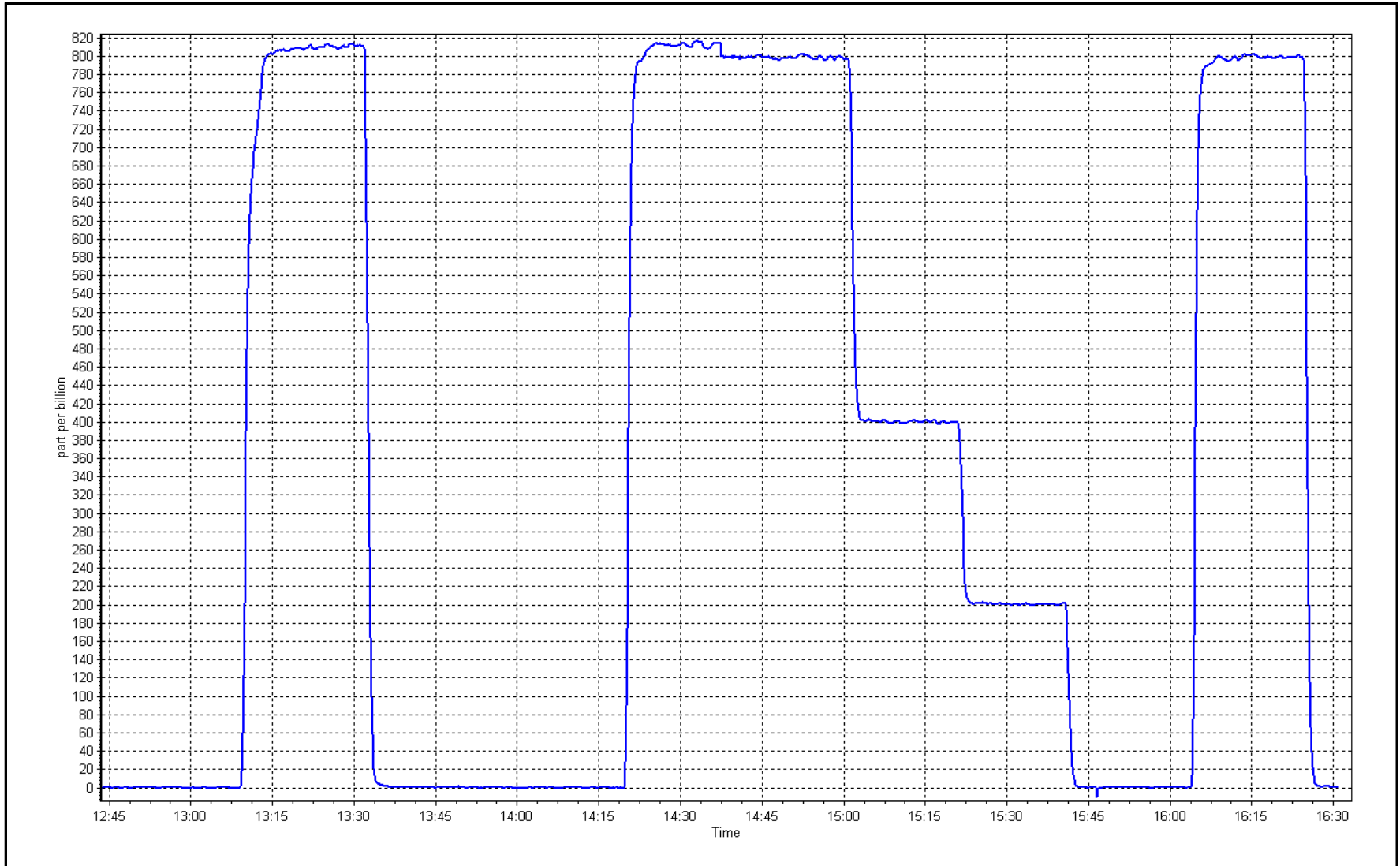
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.3	----	Correlation Coefficient	0.999998	≥0.995
800.1	799.7	1.0005	Slope	0.999748	0.90 - 1.10
400.5	401.2	0.9983	Intercept	0.195617	+/-30
200.3	200.7	0.9979			



SO2 Calibration Plot

Date: February 2, 2026

Location: Janvier





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name:	Janvier	Station number:	AMS 22
Calibration Date:	February 25, 2026	Last Cal Date:	January 29, 2026
Start time (MST):	11:51	End time (MST):	16:15
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	5.02	ppm	Cal Gas Exp Date:	November 15, 2026
Cal Gas Cylinder #:	CC424047			
Removed Cal Gas Conc:	5.02	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700		Serial Number:	3806
ZAG Make/Model:	Teledyne API T701		Serial Number:	691

Analyzer Information

Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1151680031
Converter make:	CDN-101	Converter serial #:	620
Analyzer Range	0 - 100 ppb	Converter Temp:	850 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.991381	0.978243	Backgd or Offset:	4.14	4.14
Calibration intercept:	0.360480	0.420218	Coeff or Slope:	1.253	1.253

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4920	79.7	80.0	79.9	1.003
As found Mid point	4960	39.8	40.0	40.4	0.992
As found Low point	4980	19.9	20.0	20.3	0.989
New cylinder response					
Baseline Corr As found:	79.8	Prev response:	79.69	*% change:	0.1%
Baseline Corr 2nd AF pt:	40.3	AF Slope:	0.996663	AF Intercept:	0.300653
Baseline Corr 3rd AF pt:	20.2	AF Correlation:	0.999958	<i>* = > +/-5% change initiates investigation</i>	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.3	----
High point	4920	79.7	80.0	78.6	1.018
Mid point	4960	39.8	40.0	39.7	1.007
Low point	4980	19.9	20.0	20.0	0.999
As left zero	5000	0.0	0.0	0.5	----
As left span	4920	79.7	80.0	79.1	1.012
SO2 Scrubber Check	4920	79.8	798.0	0.0	----
Date of last scrubber change:				Ave Corr Factor	1.008
Date of last converter efficiency test:					

Notes: Changed the inlet filter after as founds. Scrubber test performed, no issues. No adjustments made.

Calibration Performed By: Rene Chamberland



Wood Buffalo Environmental Association

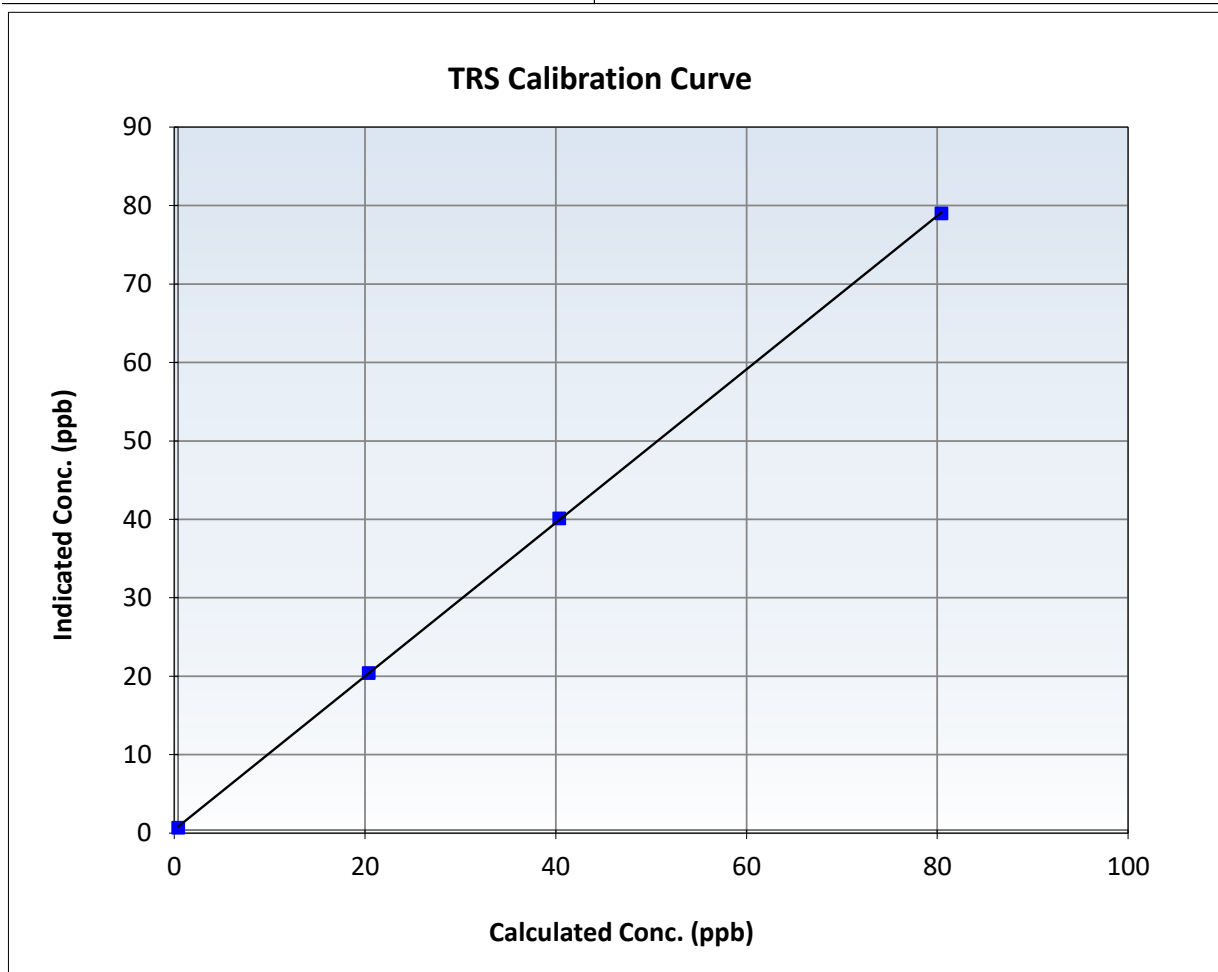
TRS Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 29, 2026
Station Name:	Janvier	Station Number:	AMS 22
Start Time (MST):	11:51	End Time (MST):	16:15
Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1151680031

Calibration Data

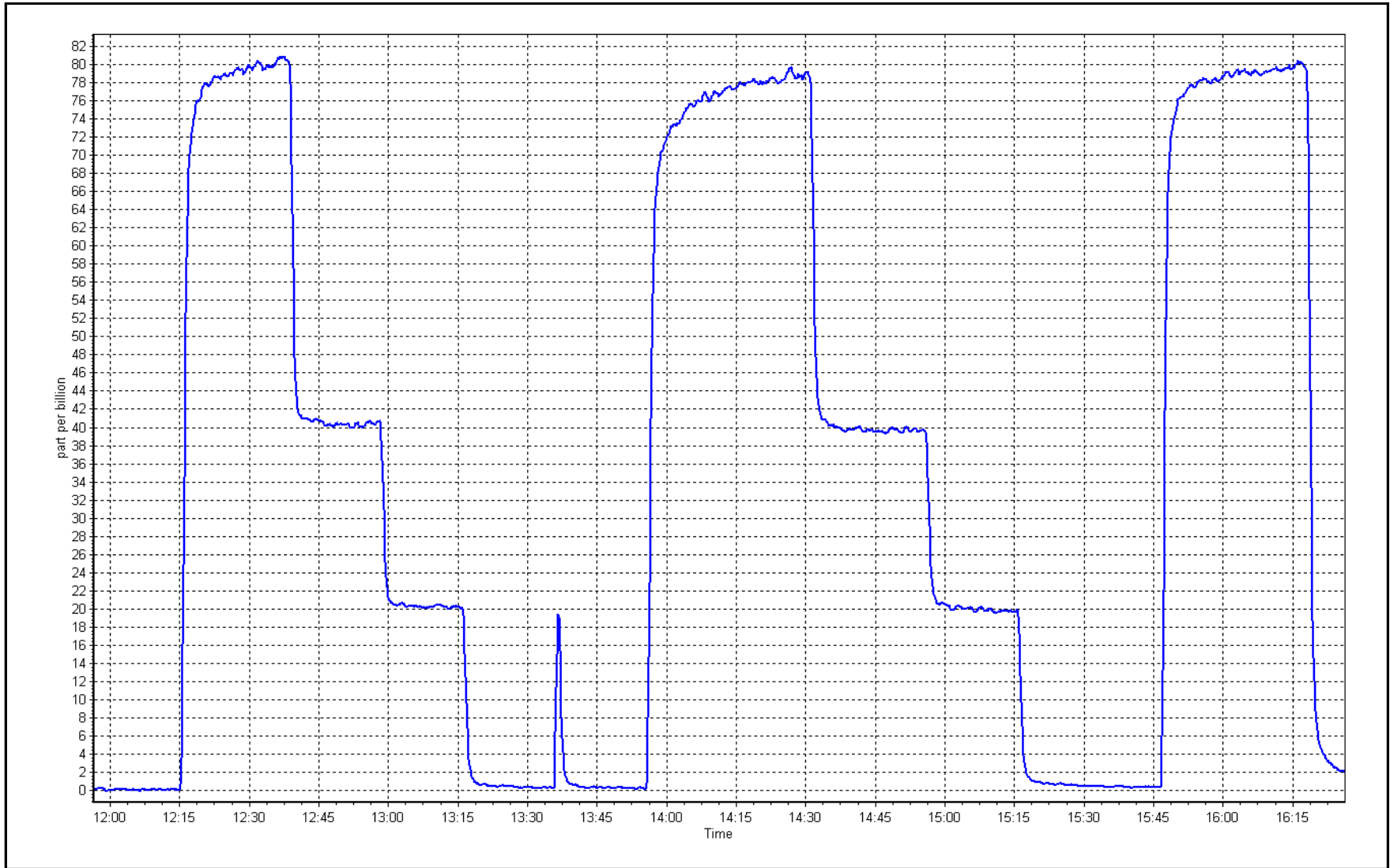
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.3	----	Correlation Coefficient	0.999982	≥ 0.995
80.0	78.6	1.0181	Slope	0.978243	$0.90 - 1.10$
40.0	39.7	1.0066	Intercept	0.420218	± 3
20.0	20.0	0.9990			



TRS Calibration Plot

Date: February 25, 2026

Location: Janvier





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Janvier	Station number:	AMS 22
Calibration Date:	February 2, 2026	Last Cal Date:	January 21, 2026
Start time (MST):	12:45	End time (MST):	16:30
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC494522	Cal Gas Expiry Date:	April 9, 2033
CH ₄ Cal Gas Conc.	499.5 ppm	CH ₄ Equiv Conc.	1057.5 ppm
C ₃ H ₈ Cal Gas Conc.	202.9 ppm		
Removed Gas Cert:	NA	Removed Gas Expiry:	NA
Removed CH ₄ Conc.	499.5 ppm	CH ₄ Equiv Conc.	1057.5 ppm
Removed C ₃ H ₈ Conc.	202.9 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	Teledyne API 700	Serial Number:	3806
Zero Air Gen model:	Teledyne API 701	Serial Number:	691

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1317958219
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH ₄ SP Ratio:	2.53E-04	2.57E-04	5.98E-05	5.91E-05
CH ₄ Retention time:	11.6	11.6	149911	151698
Zero Chromatogram:	OFF	OFF	Flat Baseline:	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	80.3	16.98	16.90	1.005
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.90	Prev response	17.09	*% change	-1.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	80.3	16.98	16.95	1.002
Mid point	4960	40.2	8.50	8.39	1.013
Low point	4980	20.1	4.25	4.19	1.015
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	80.3	16.98	16.89	1.005
Average Correction Factor					1.010

Notes: Changed the inlet filter and N₂/H₂ cylinders after as founds. Adjusted the span.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	80.3	8.96	9.02	0.994
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	9.02	Prev response	9.09	*% change	-0.8%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	80.3	8.96	8.93	1.004
Mid point	4960	40.2	4.49	4.44	1.011
Low point	4980	20.1	2.24	2.22	1.009
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	80.3	8.96	8.86	1.011
Average Correction Factor					1.008

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4920	80.3	8.02	7.88	1.018
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.88	Prev response	8.00	*% change	-1.6%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4920	80.3	8.02	8.02	1.000
Mid point	4960	40.2	4.02	3.96	1.015
Low point	4980	20.1	2.01	1.97	1.021
As left zero	5000	0.0	0.00	0.00	----
As left span	4920	80.3	8.02	8.03	0.999
Average Correction Factor					1.012

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	1.009214	0.998380
THC Cal Offset:	-0.047930	-0.038893
CH ₄ Cal Slope:	1.001981	1.000730
CH ₄ Cal Offset:	-0.036021	-0.027627
NMHC Cal Slope:	1.015650	0.996314
NMHC Cal Offset:	-0.011508	-0.011666

Calibration Performed By: Rene Chamberland



Wood Buffalo Environmental Association

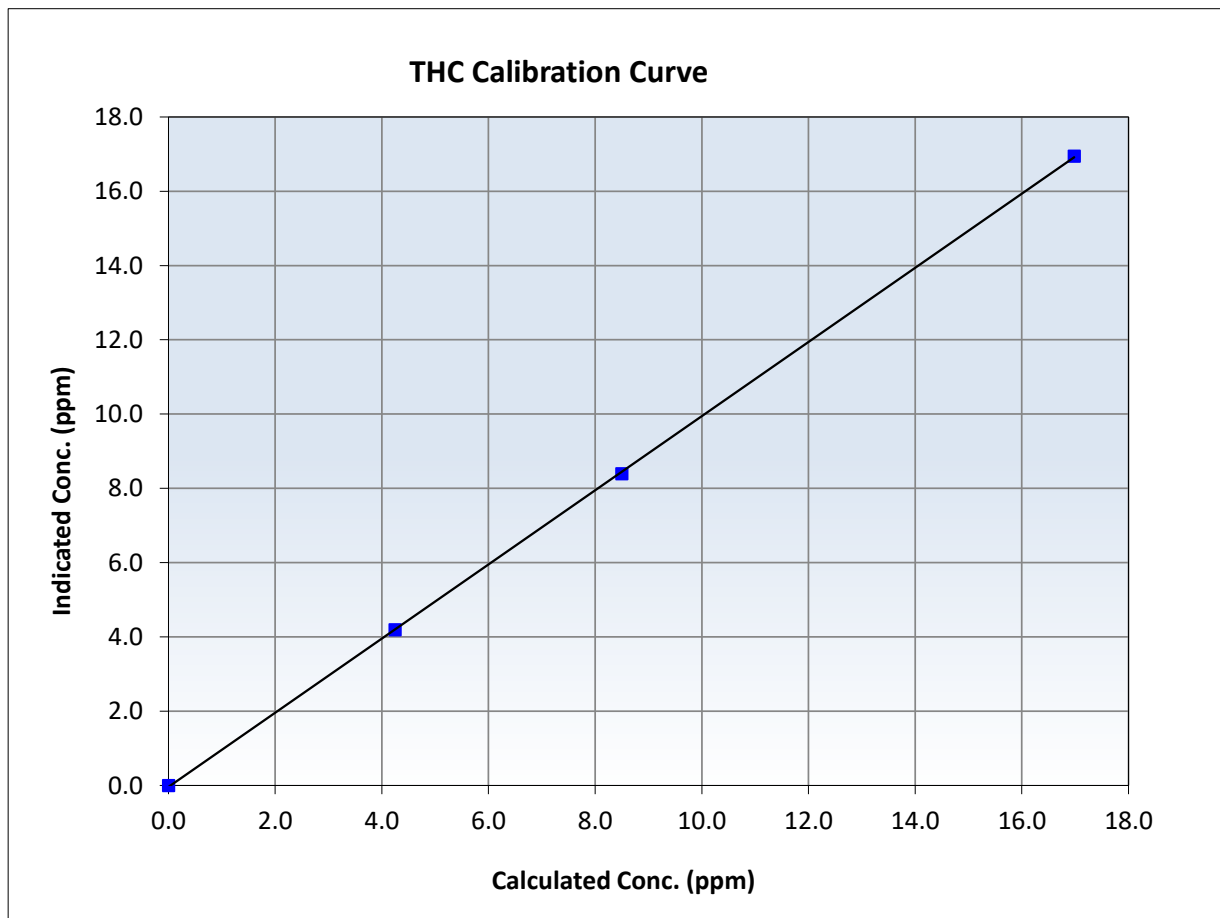
THC Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 21, 2026
Station Name:	Janvier	Station Number:	AMS 22
Start Time (MST):	12:45	End Time (MST):	16:30
Analyzer make:	Thermo 55i	Analyzer serial #:	1317958219

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999963	<i>≥0.995</i>
16.98	16.95	1.0021	Slope	0.998380	<i>0.90 - 1.10</i>
8.50	8.39	1.0128	Intercept	-0.038893	<i>+/-0.5</i>
4.25	4.19	1.0145			





Wood Buffalo Environmental Association

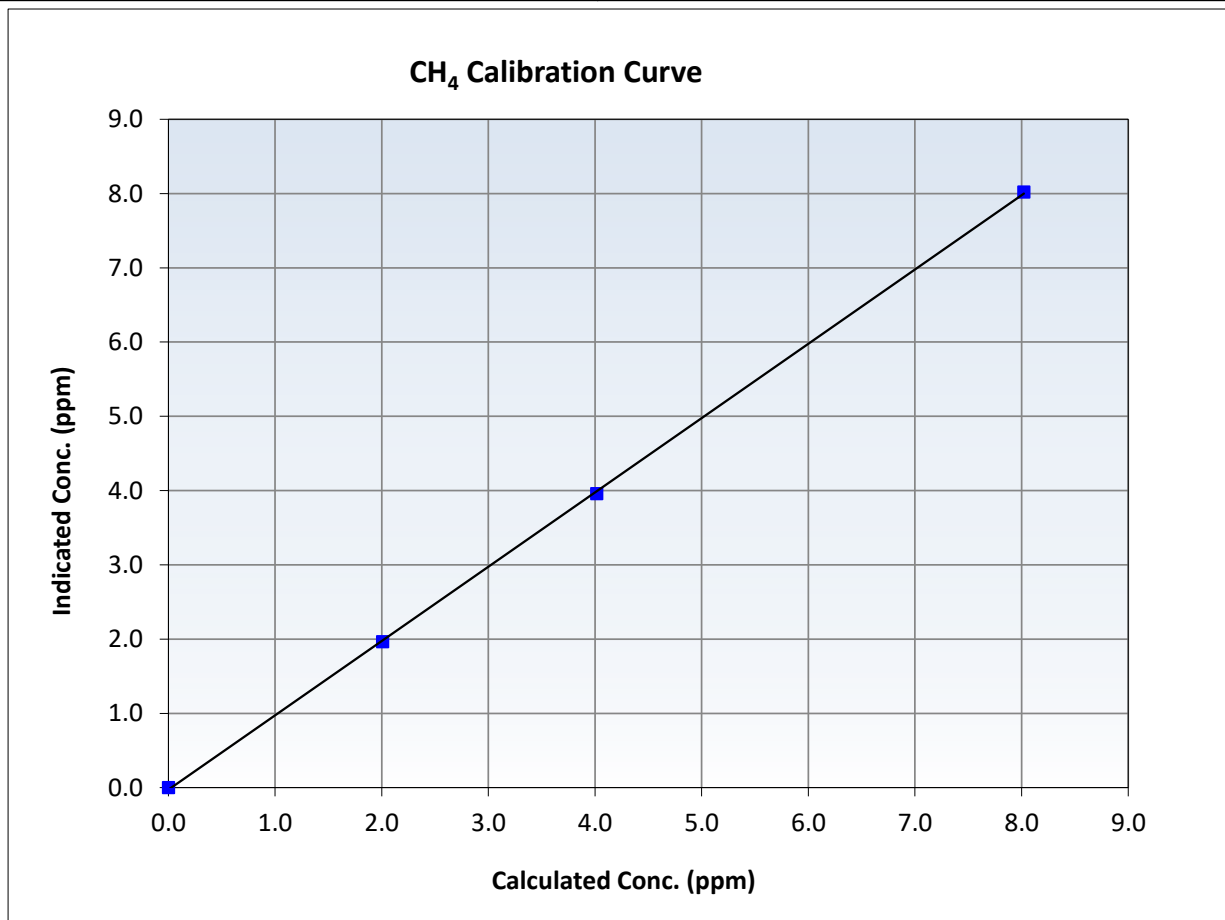
CH₄ Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 21, 2026
Station Name:	Janvier	Station Number:	AMS 22
Start Time (MST):	12:45	End Time (MST):	16:30
Analyzer make:	Thermo 55i	Analyzer serial #:	1317958219

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999929	<i>≥0.995</i>
8.02	8.02	1.0002	Slope	1.000730	<i>0.90 - 1.10</i>
4.02	3.96	1.0146	Intercept	-0.027627	<i>+/-0.5</i>
2.01	1.97	1.0208			





Wood Buffalo Environmental Association

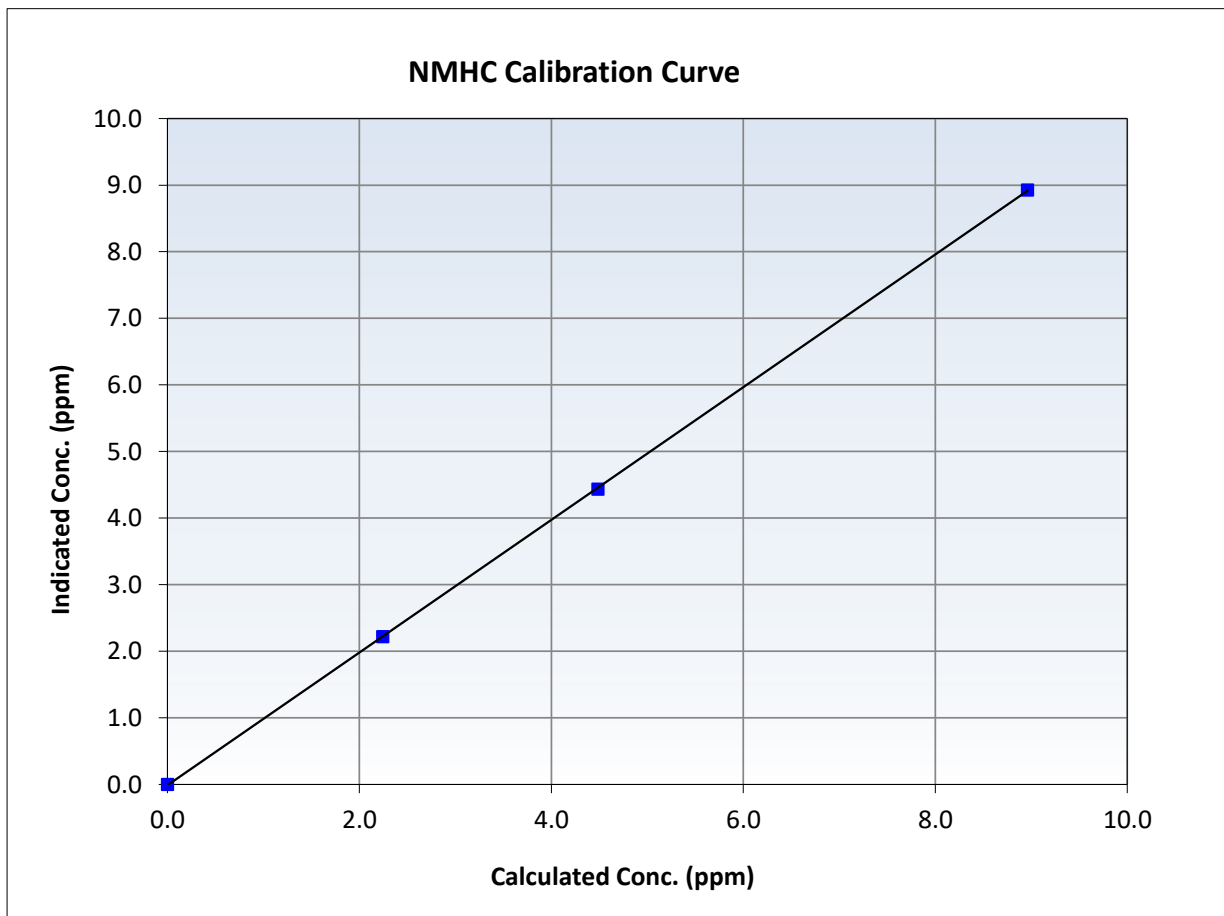
NMHC Calibration Summary

Station Information

Calibration Date:	February 2, 2026	Previous Calibration:	January 21, 2026
Station Name:	Janvier	Station Number:	AMS 22
Start Time (MST):	12:45	End Time (MST):	16:30
Analyzer make:	Thermo 55i	Analyzer serial #:	1317958219

Calibration Data

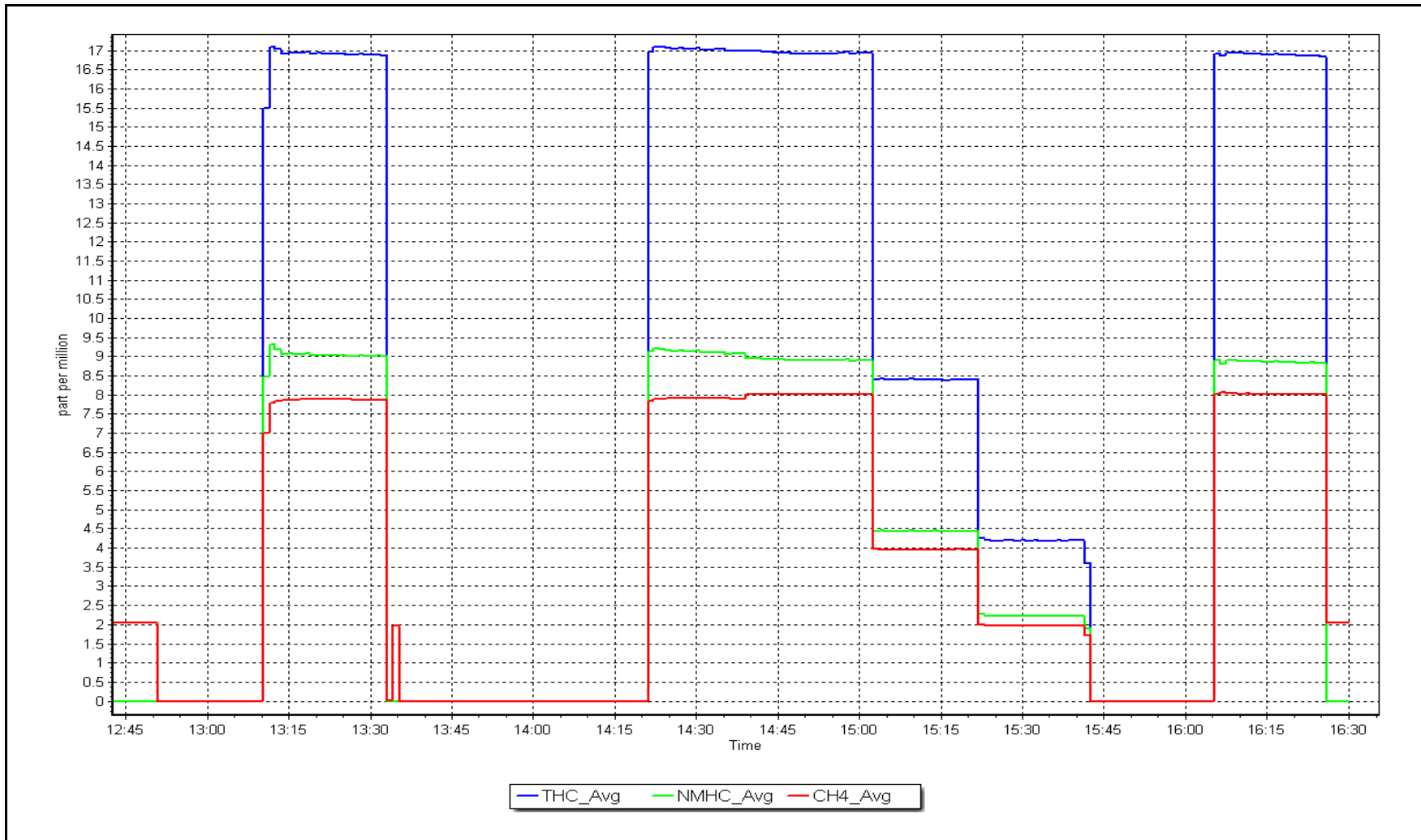
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999983	<i>≥0.995</i>
8.96	8.93	1.0038	Slope	0.996314	<i>0.90 - 1.10</i>
4.49	4.44	1.0113	Intercept	-0.011666	<i>+/-0.5</i>
2.24	2.22	1.0095			



NMHC Calibration Plot

Date: February 2, 2026

Location: Janvier





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Janvier
 Station number: AMS 22
 Calibration Date: February 27, 2026
 Last Cal Date: January 26, 2026
 Start time (MST): 10:55
 End time (MST): 15:18
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0047765
 NOX Cal Gas Conc: 48.90 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 48.90 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701
 Cal Gas Expiry Date: March 11, 2031
 NO Cal Gas Conc: 48.80 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 48.80 ppm
 NO gas Diff:
 Serial Number: 3806
 Serial Number: 691

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.3	-0.2	-0.1	----	----
AF High point	4918	82.0	802.0	800.3	1.6	801.3	794.8	6.6	1.0004	1.0067
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 798.8 ppb		NO = 795.0 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = 0.3%	
Baseline Corr 1st pt	NO _x = 801.6 ppb		NO = 795.0 ppb			<u>As Found Statistics</u>		*Percent Change	NO = 0.0%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1229254994

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.996105	0.996576
NO _x Cal Offset:	-0.016050	0.043982
NO Cal Slope:	0.995034	0.995919
NO Cal Offset:	-1.376225	-1.036167
NO ₂ Cal Slope:	1.001992	1.002152
NO ₂ Cal Offset:	0.254179	0.520340

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.012	1.012	NO bkgnd or offset:	2.7	2.7
NOX coeff or slope:	0.997	0.997	NOX bkgnd or offset:	2.9	2.9
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	175.0	177.1

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOx concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOx concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOx Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	----	----
High point	4918	82.0	802.0	800.3	1.6	799.2	796.6	2.6	1.0035	1.0047
Mid point	4960	41.0	400.9	400.1	0.8	399.7	396.7	3.0	1.0030	1.0085
Low point	4980	20.5	200.5	200.1	0.4	199.8	197.3	2.5	1.0034	1.0140
As left zero	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	----	----
As left span	4918	82.0	802.0	400.1	401.9	797.8	400.1	397.7	1.0052	1.0000
Average Correction Factor									1.0033	1.0091

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.0	----	----
High GPT point	793.4	398.4	396.6	397.7	0.9973	100.3%
Mid GPT point	793.4	596.1	198.9	200.3	0.9932	100.7%
Low GPT point	793.4	694.2	100.8	102.0	0.9886	101.2%
Average Correction Factor					0.9931	100.7%

Notes:

Inlet filter was changed after as founds. No adjustments made.

Calibration Performed By:

Rene Chamberland



Wood Buffalo Environmental Association

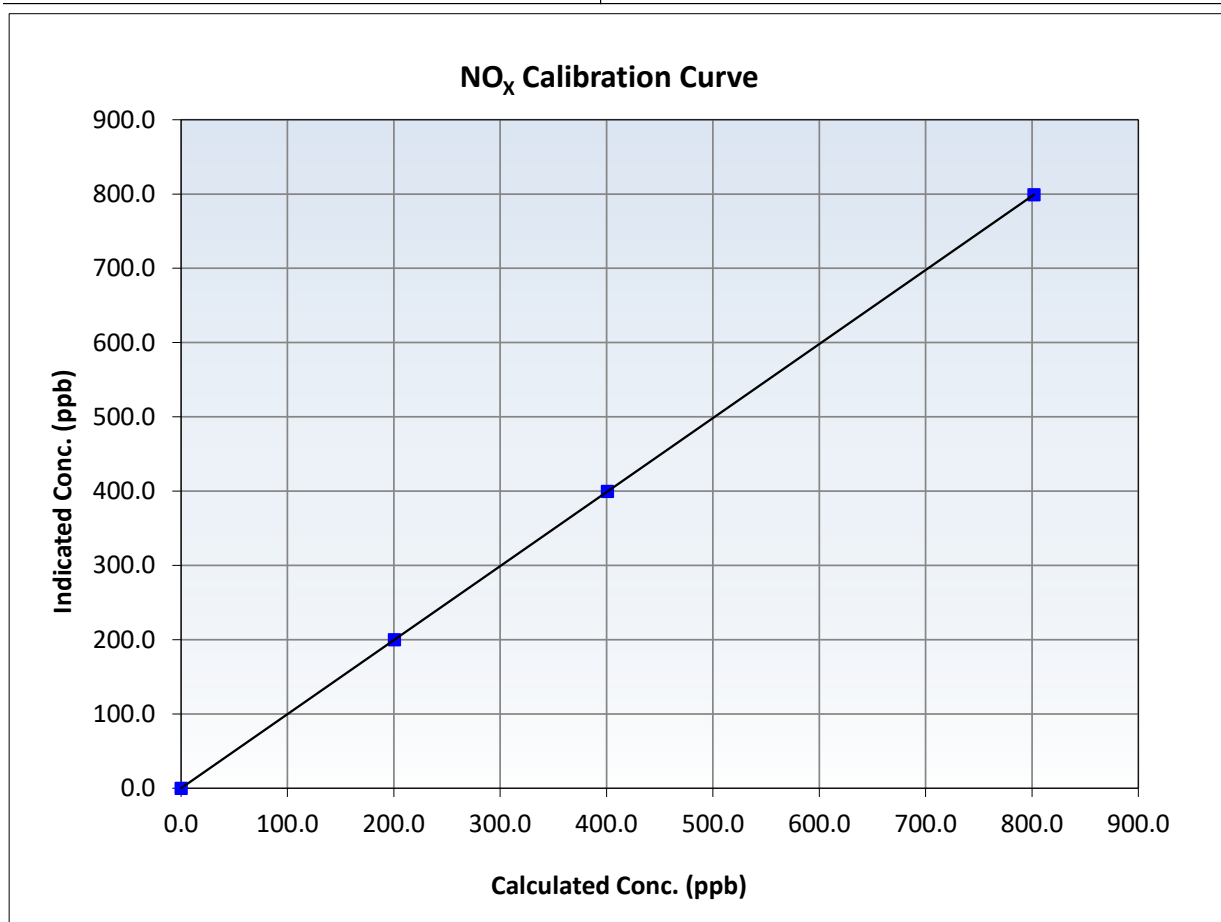
NO_x Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	January 26, 2026
Station Name:	Janvier	Station Number:	AMS 22
Start Time (MST):	10:55	End Time (MST):	15:18
Analyzer make:	Thermo 42i	Analyzer serial #:	1229254994

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	1.000000	<i>≥0.995</i>
802.0	799.2	1.0035	Slope	0.996576	<i>0.90 - 1.10</i>
400.9	399.7	1.0030	Intercept	0.043982	<i>+/-20</i>
200.5	199.8	1.0034			





Wood Buffalo Environmental Association

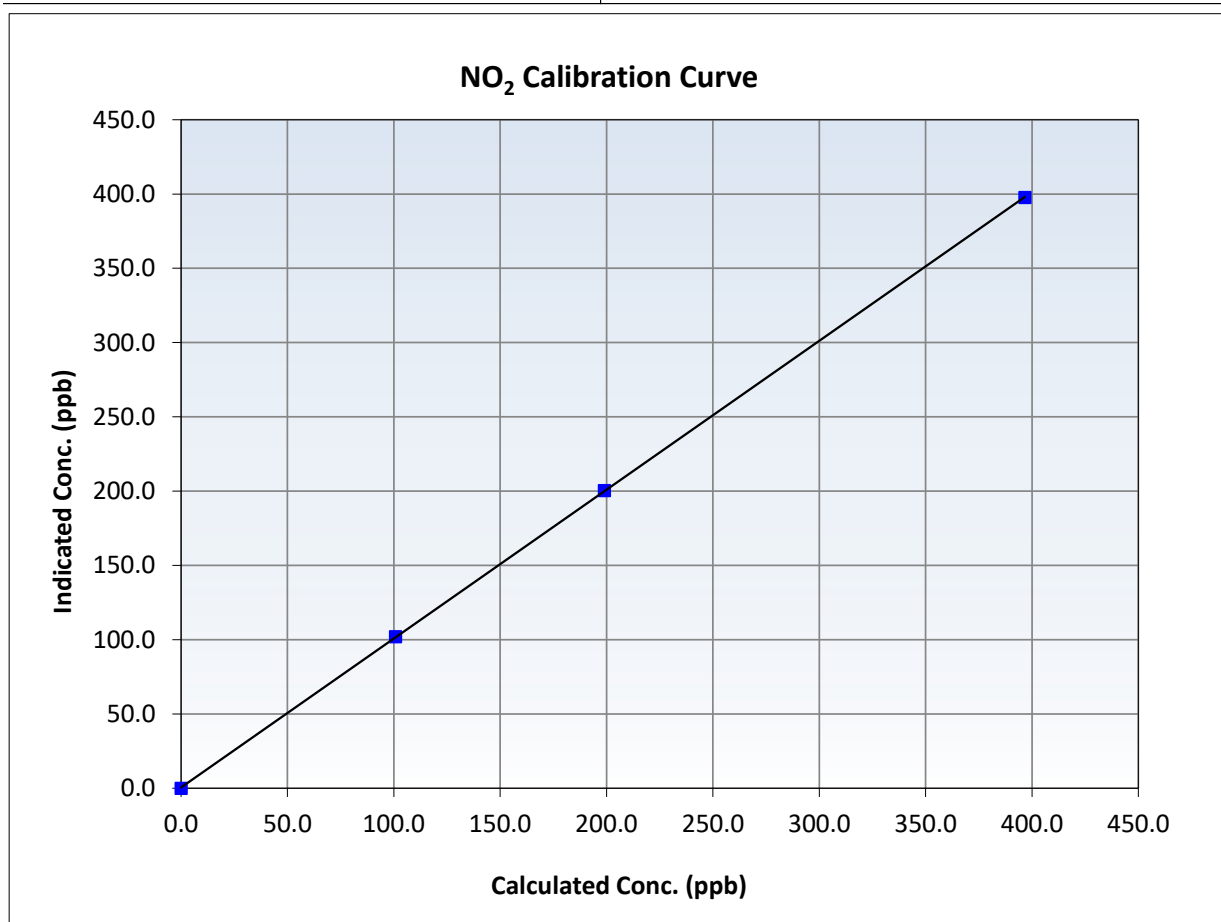
NO₂ Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	January 26, 2026
Station Name:	Janvier	Station Number:	AMS 22
Start Time (MST):	10:55	End Time (MST):	15:18
Analyzer make:	Thermo 42i	Analyzer serial #:	1229254994

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999992	≥0.995
396.6	397.7	0.9973	Slope	1.002152	0.90 - 1.10
198.9	200.3	0.9932	Intercept	0.520340	+/-20
100.8	102.0	0.9886			





Wood Buffalo Environmental Association

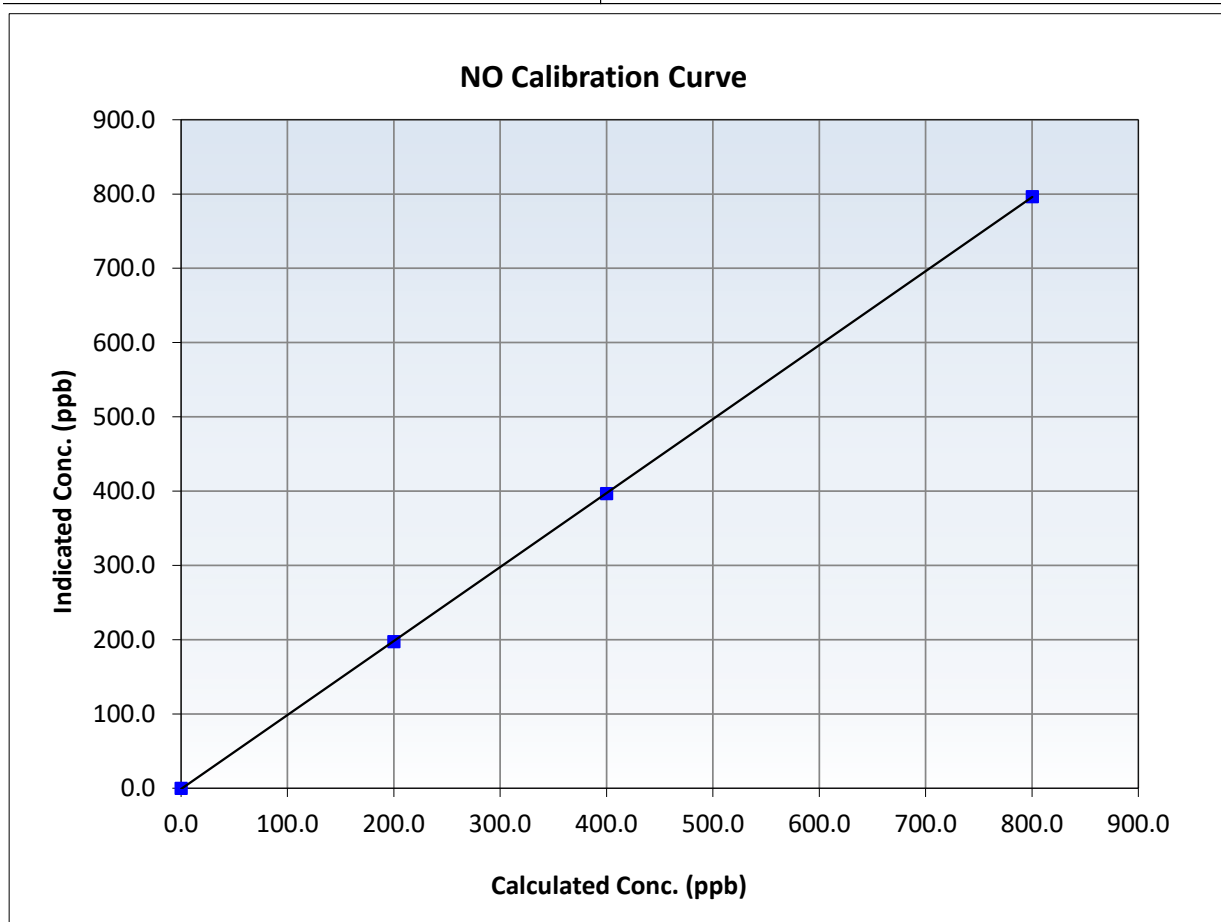
NO Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	January 26, 2026
Station Name:	Janvier	Station Number:	AMS 22
Start Time (MST):	10:55	End Time (MST):	15:18
Analyzer make:	Thermo 42i	Analyzer serial #:	1229254994

Calibration Data

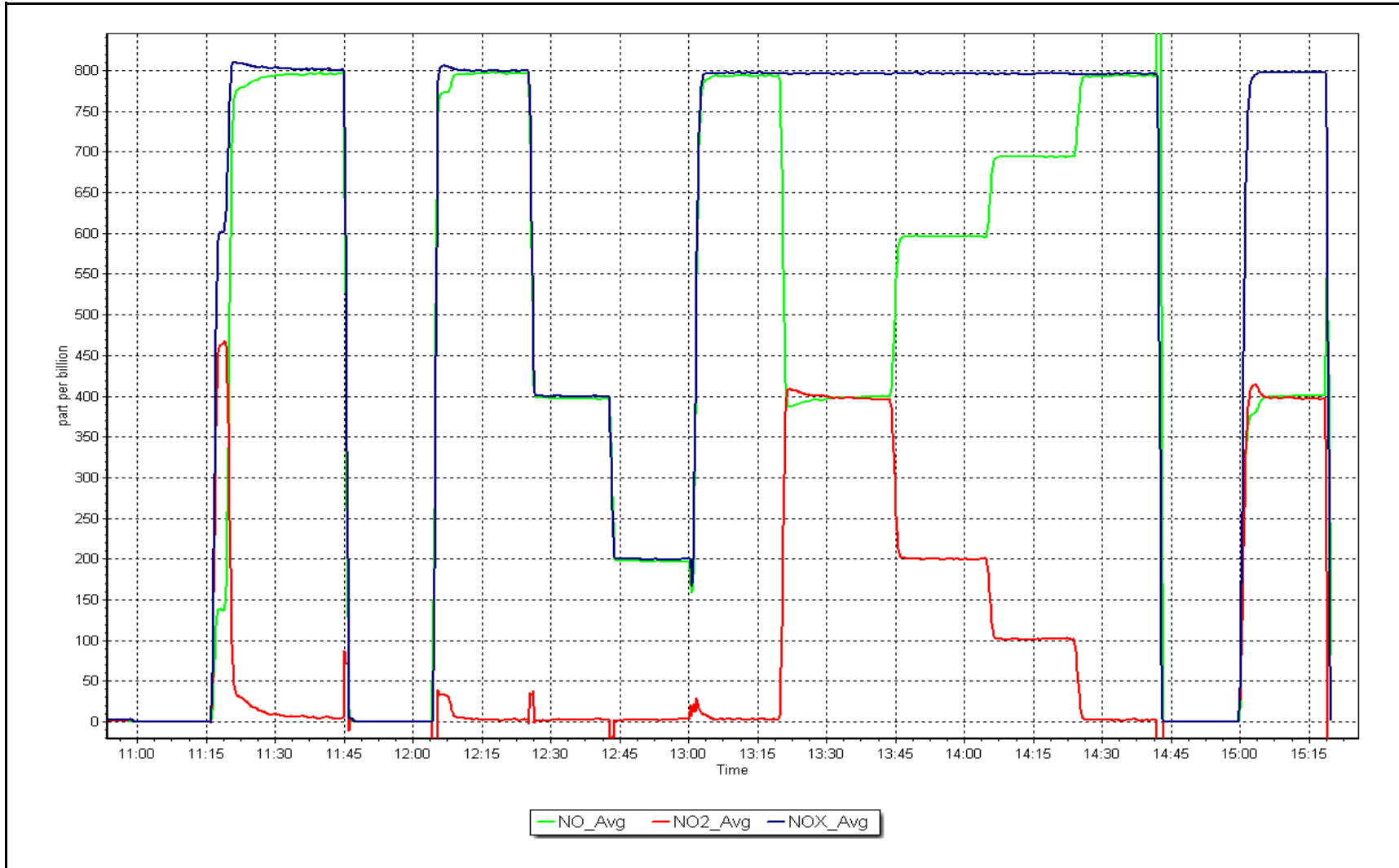
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999992	≥0.995
800.3	796.6	1.0047	Slope	0.995919	0.90 - 1.10
400.1	396.7	1.0085	Intercept	-1.036167	+/-20
200.1	197.3	1.0140			



NO_x Calibration Plot

Date: February 27, 2026

Location: Janvier





Wood Buffalo Environmental Association

O₃ Calibration Report

Station Information

Station Name:	Janvier	Station number:	AMS 22
Calibration Date:	February 24, 2026	Last Cal Date:	January 19, 2026
Start time (MST):	8:26	End time (MST):	10:53
Reason:	Routine		

Calibration Standards

O3 generation mode:	Photometer	Serial Number:	3806
Calibrator Make/Model:	Teledyne API T700	Serial Number:	691
ZAG Make/Model:	Teledyne API T701H		

Analyzer Information

Analyzer make:	Thermo 49i	Analyzer serial #:	1227254861
Analyzer Range	0 - 500 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.000143	0.993743	Backgd or Offset:	-0.2	-0.2
Calibration intercept:	-0.300000	-0.080000	Coeff or Slope:	1.506	1.506

O₃ As Found Data

Set Point	Dilution air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic- AFzero) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.2	----
As found High point	5000	936.6	400.0	397.4	1.007
As found Mid point					
As found Low point					
Baseline Corr As found:	397.2	Previous response	399.8	*% change	-0.6%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

O₃ Calibration Data

Set Point	Total air flow rate (sccm)	Calibrator Lamp Voltage Drive (mV)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.2	----
High point	5000	938.9	400.0	397.6	1.006
Mid point	5000	777.8	200.0	198.4	1.008
Low point	5000	671.5	100.0	99.1	1.009
As left zero	5000	0.0	0.0	0.2	----
As left span	5000	939.1	400.0	398.6	1.004
Average Correction Factor					1.008

Notes:

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

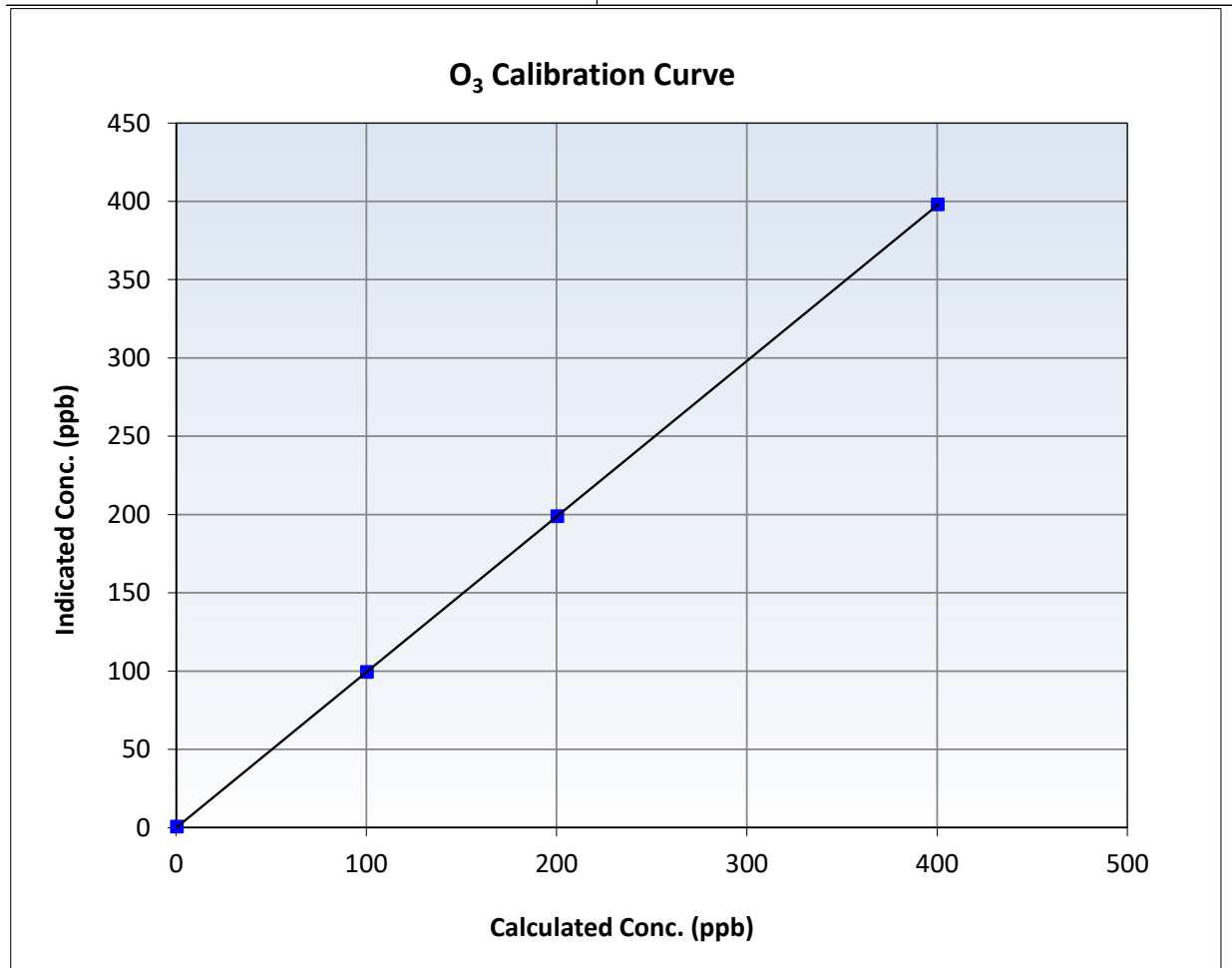
O₃ Calibration Summary

Station Information

Calibration Date:	February 24, 2026	Previous Calibration:	January 19, 2026
Station Name:	Janvier	Station Number:	AMS 22
Start Time (MST):	8:26	End Time (MST):	10:53
Analyzer make:	Thermo 49i	Analyzer serial #:	1227254861

Calibration Data

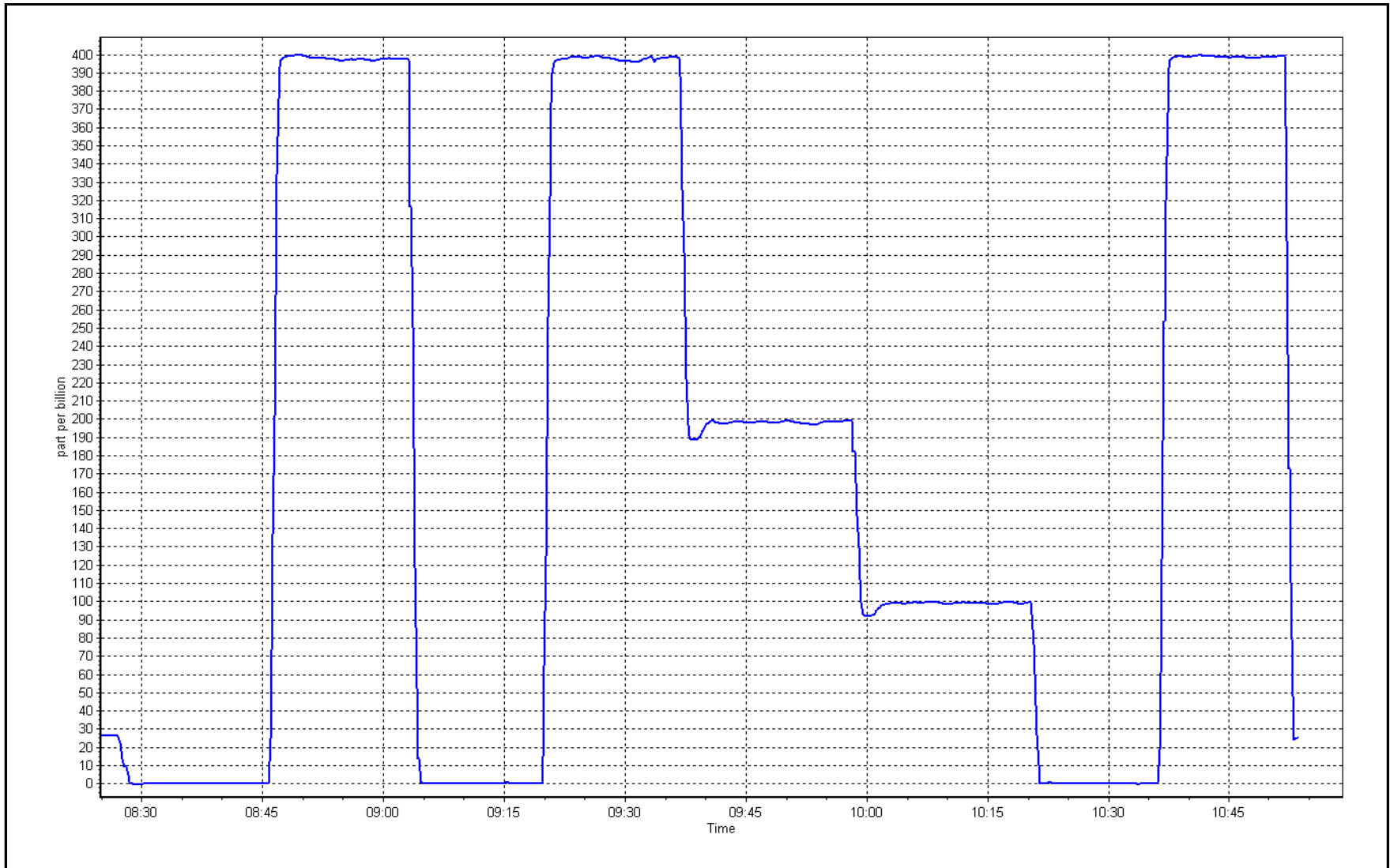
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.2	----	Correlation Coefficient	0.999997	≥0.995
400.0	397.6	1.0060	Slope	0.993743	0.90 - 1.10
200.0	198.4	1.0081	Intercept	-0.080000	+/- 5
100.0	99.1	1.0091			



O₃ Calibration Plot

Date: February 24, 2026

Location: Janvier





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Janvier Station number: AMS 22
 Calibration Date: February 24, 2026 Last Cal Date: January 29, 2026
 Start time (MST): 7:51 End time (MST): 8:38

Analyzer Make: Teledyne API T640 S/N: 325
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388753
 Temp/RH standard: Alicat FP-25BT S/N: 388753

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-17.3	-18.4	-17.3	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	710.9	712.6	710.9	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	4.97	5.08	4.97	<input type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	40	----	40	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	5.3	PM w/ HEPA: _____	0.0	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: **10.9** Expiry Date: October 6, 2024
 Lot No.: 100128-050-042

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test	10.9	10.9	10.9	<input type="checkbox"/>	10.9 +/- 0.5

Date Optical Chamber Cleaned: February 24, 2026
 Date Disposable Filter Changed: February 24, 2026

Post- maintenance Zero Verification: PM w/ HEPA: 0 <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: February 24, 2026
 Date RH/T Sensor Cleaned: February 24, 2026

Notes: Flow, PMT, and Leak Check done before and after Optical Cleaning. No adjustments done.

Calibration by: Melissa Lemay



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS23
FORT HILLS
FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Fort Hills	Station number:	AMS 23
Calibration Date:	February 11, 2026	Last Cal Date:	January 16, 2026
Start time (MST):	9:07	End time (MST):	11:53
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.35	ppm	Cal Gas Exp Date:	October 9, 2032
Cal Gas Cylinder #:	CC484463			
Removed Cal Gas Conc:	50.35	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:			Diff between cyl:	
Calibrator Model:	API T700		Serial Number:	1222
Zero Air Gen Model:	API T701		Serial Number:	1117

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	1160290012
Analyzer Range:	0-1000ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.001020	0.996588	Backgd or Offset:	19.1	19.1
Calibration intercept:	-0.779322	-0.579646	Coeff or Slope:	1.070	1.070

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4921	79.4	799.5	796.6	1.004
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	796.6	Previous response	799.5	*% change	-0.4%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.2	----
High point	4921	79.4	799.5	797.2	1.003
Mid point	4960	39.7	399.8	395.6	1.011
Low point	4980	19.8	199.4	198.6	1.004
As left zero	5000	0.0	0.0	0.3	----
As left span	4921	79.4	799.5	796.8	1.003
Average Correction Factor:					1.006

Notes: No Maintenance or adjustments done.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

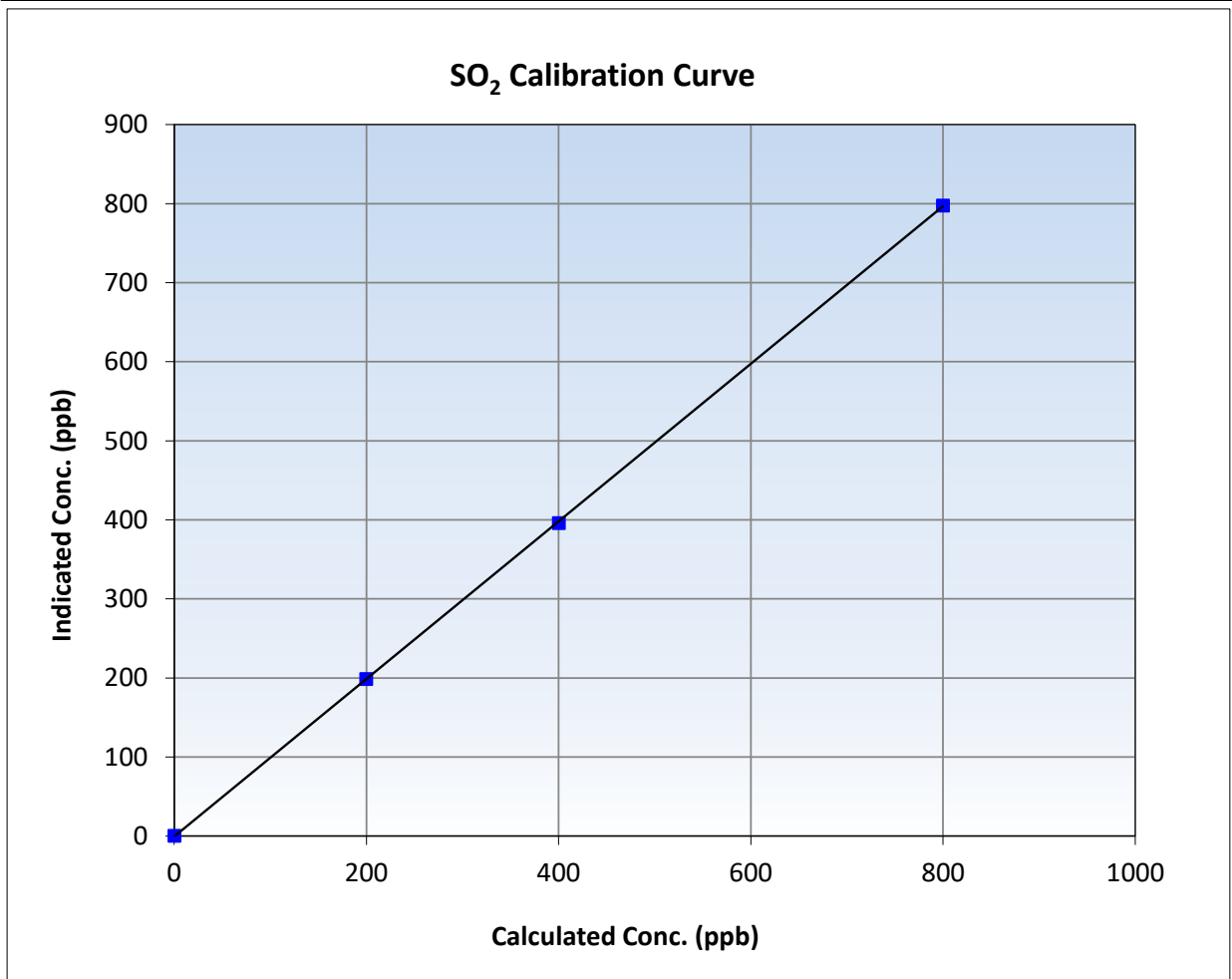
SO₂ Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 16, 2026
Station Name:	Fort Hills	Station Number:	AMS 23
Start Time (MST):	9:07	End Time (MST):	11:53
Analyzer make:	Thermo 43i	Analyzer serial #:	1160290012

Calibration Data

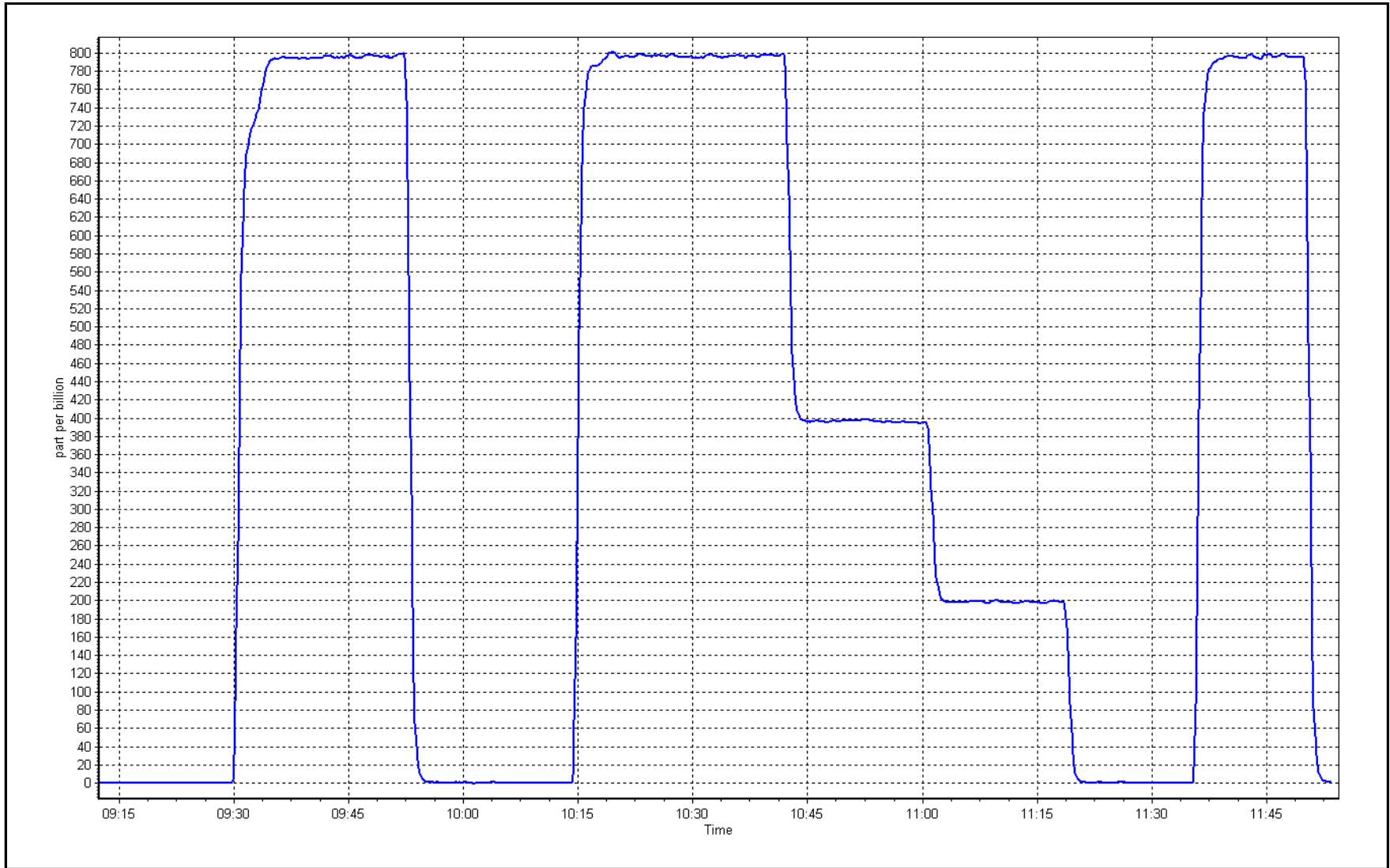
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	0.2	----	Correlation Coefficient	0.999980	≥0.995
799.5	797.2	1.0029	Slope	0.996588	0.90 - 1.10
399.8	395.6	1.0106	Intercept	-0.579646	+/-30
199.4	198.6	1.0040			



SO2 Calibration Plot

Date: February 11, 2026

Location: Fort Hills





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name:	Fort Hills	Station number:	AMS 23
Calibration Date:	February 10, 2026	Last Cal Date:	January 14, 2026
Start time (MST):	7:10	End time (MST):	10:55
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.84	ppm	Cal Gas Exp Date:	August 28, 2027
Cal Gas Cylinder #:	DT0021910			
Removed Cal Gas Conc:	4.84	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:			Diff between cyl:	
Calibrator Make/Model:	API T700		Serial Number:	5762
ZAG Make/Model:	API T701		Serial Number:	1117

Analyzer Information

Analyzer make:	Thermo 43i TLE	Analyzer serial #:	1300156232
Converter make:	CDN-101	Converter serial #:	594
Analyzer Range	0 - 100 ppb	Converter Temp:	800 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.003387	1.001387	Backgd or Offset:	1.96	1.96
Calibration intercept:	-0.138018	-0.118036	Coeff or Slope:	0.986	0.986

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4917	82.6	80.0	80.5	0.993
As found Mid point	4959	41.3	40.0	40.2	0.994
As found Low point	4979	20.7	20.0	20.0	1.002
New cylinder response					
Baseline Corr As found:	80.5	Prev response:	80.10	*% change:	0.5%
Baseline Corr 2nd AF pt:	40.2	AF Slope:	1.007392	AF Intercept:	-0.078163
Baseline Corr 3rd AF pt:	20.0	AF Correlation:	0.999995	<i>* = > +/-5% change initiates investigation</i>	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4917	82.6	80.0	80.0	1.000
Mid point	4959	41.3	40.0	39.9	1.002
Low point	4979	20.7	20.0	19.8	1.012
As left zero	5000	0.0	0.0	0.1	----
As left span	4917	82.6	80.0	82.6	0.968
SO2 Scrubber Check	4920	80.3	803.0	0.1	----
Date of last scrubber change:				Ave Corr Factor	1.005
Date of last converter efficiency test:	March 13, 2024			110.3%	efficiency

Notes: SOx scrubber checked after the calibrator zero. No adjustments done.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

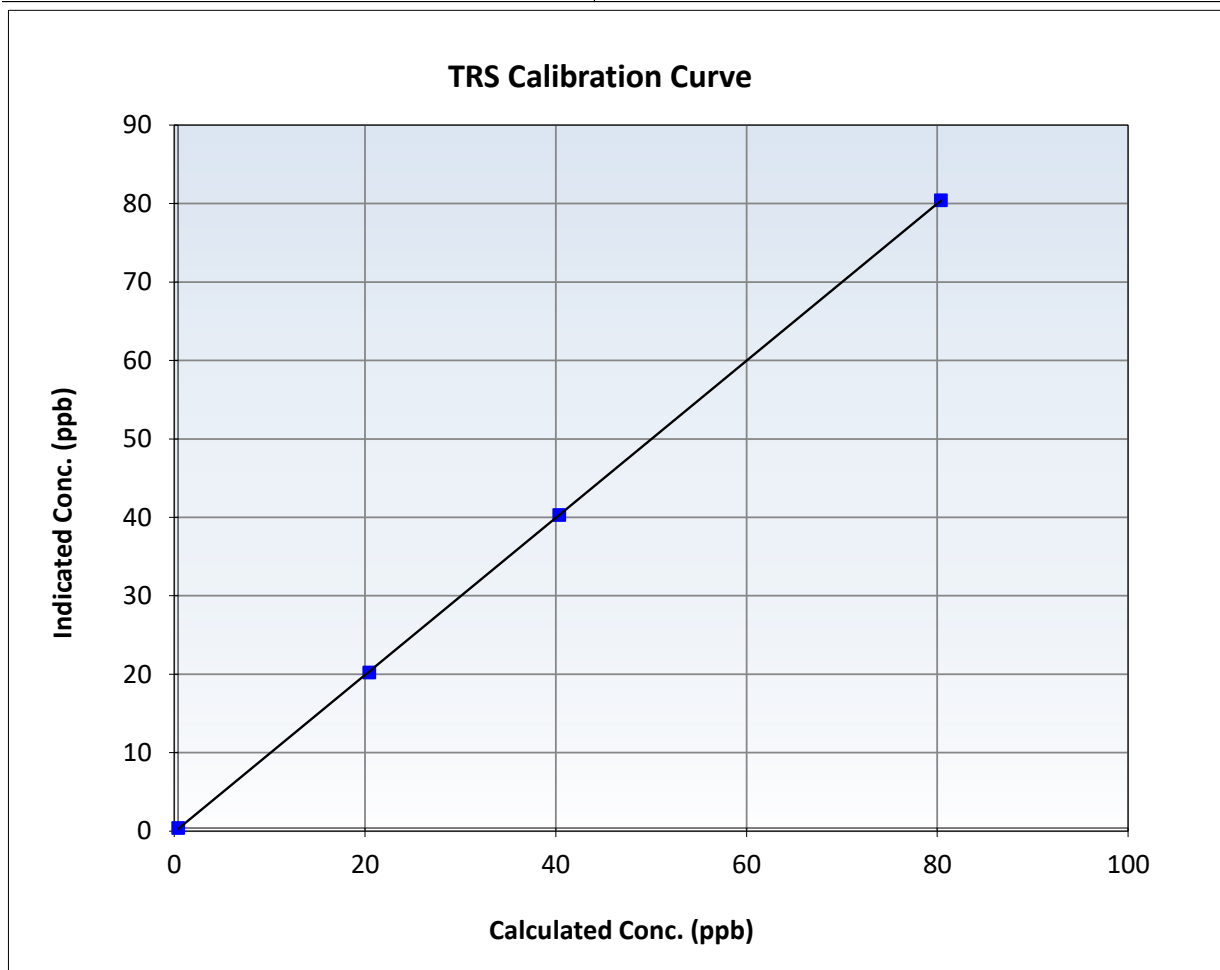
TRS Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 14, 2026
Station Name:	Fort Hills	Station Number:	AMS 23
Start Time (MST):	7:10	End Time (MST):	10:55
Analyzer make:	Thermo 43i TLE	Analyzer serial #:	1300156232

Calibration Data

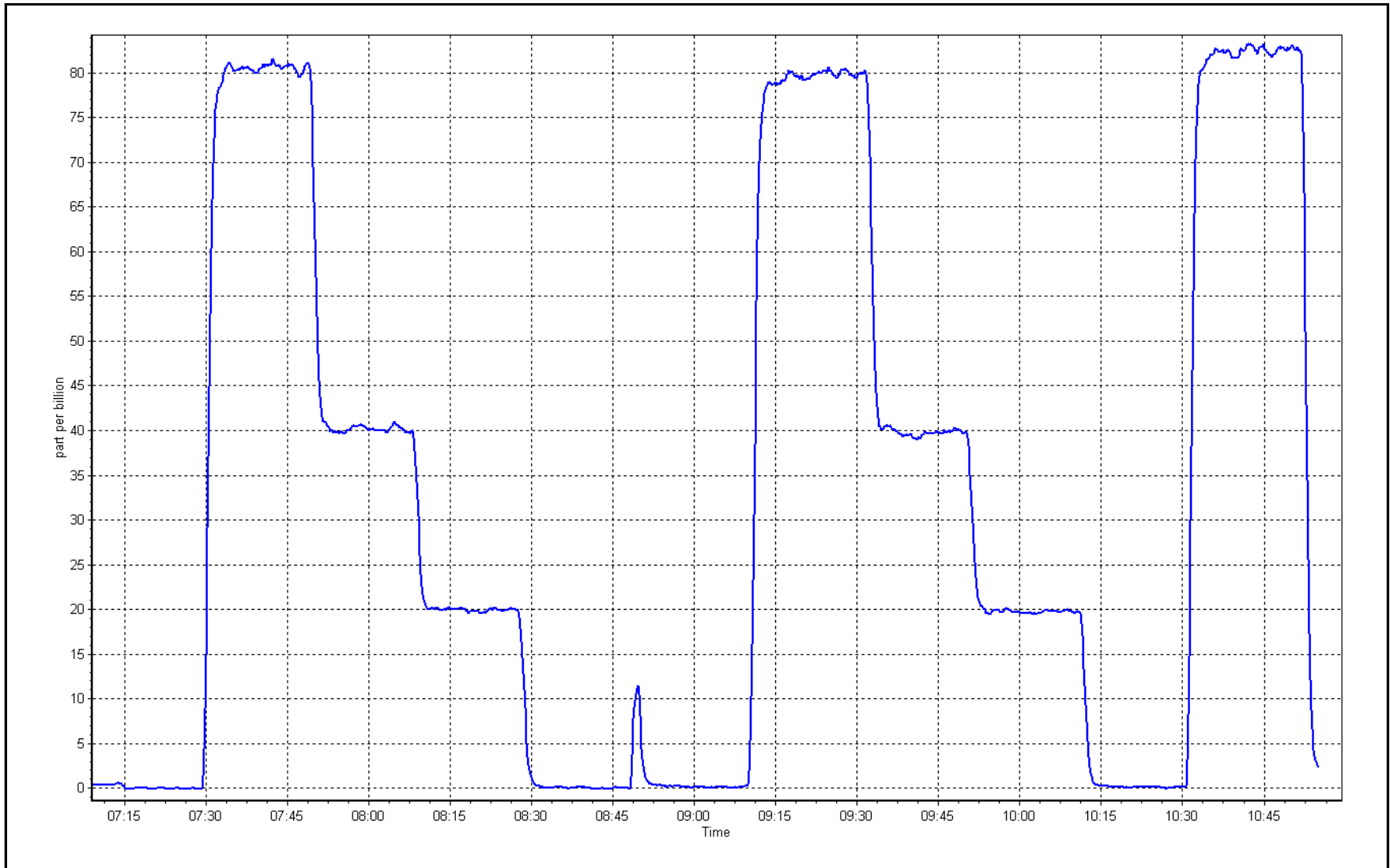
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999989	≥ 0.995
80.0	80.0	0.9995	Slope	1.001387	$0.90 - 1.10$
40.0	39.9	1.0019	Intercept	-0.118036	± 3
20.0	19.8	1.0121			



TRS Calibration Plot

Date: February 10, 2026

Location: Fort Hills





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Fort Hills	Station number:	AMS 23
Calibration Date:	February 11, 2026	Last Cal Date:	January 16, 2026
Start time (MST):	8:07	End time (MST):	11:52
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC484463	Cal Gas Expiry Date:	October 9, 2032
CH4 Cal Gas Conc.	504.3 ppm	CH4 Equiv Conc.	1065.6 ppm
C3H8 Cal Gas Conc.	204.1 ppm		
Removed Gas Cert:		Removed Gas Expiry:	
Removed CH4 Conc.	504.3 ppm	CH4 Equiv Conc.	1065.6 ppm
Removed C3H8 Conc.	204.1 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	API T700	Serial Number:	1222
Zero Air Gen model:	API T701	Serial Number:	1117

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 12227620777
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
CH4 SP Ratio:	3.68E-04	3.71E-04	NMHC SP Ratio:	5.76E-05	5.86E-05
CH4 Retention time:	15.2	15.2	NMHC Peak Area:	155264	152436
Zero Chromatogram:	ON	ON	Flat Baseline:	OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	---
As found High point	4921	79.4	16.92	16.87	1.003
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	16.87	Prev response	16.82	*% change	0.3%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	---
High point	4921	79.4	16.92	16.83	1.005
Mid point	4960	39.7	8.46	8.24	1.026
Low point	4980	19.8	4.22	4.11	1.027
As left zero	5000	0.0	0.00	0.00	---
As left span	4921	79.4	16.92	16.75	1.010
Average Correction Factor					1.020

Notes: Nitrogen Cylinder Changed. Span adjusted.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	79.4	8.91	8.84	1.008
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.84	Prev response	8.86	*% change	-0.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	79.4	8.91	8.86	1.006
Mid point	4960	39.7	4.46	4.37	1.019
Low point	4980	19.8	2.22	2.19	1.014
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	79.4	8.91	8.80	1.013
Average Correction Factor					1.013

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4921	79.4	8.01	8.03	0.998
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	8.03	Prev response	7.96	*% change	0.8%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4921	79.4	8.01	7.97	1.004
Mid point	4960	39.7	4.00	3.87	1.034
Low point	4980	19.8	2.00	1.91	1.043
As left zero	5000	0.0	0.00	0.00	----
As left span	4921	79.4	8.01	7.95	1.007
Average Correction Factor					1.027

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.998134	0.995291
THC Cal Offset:	-0.069189	-0.070400
CH ₄ Cal Slope:	1.000689	0.997222
CH ₄ Cal Offset:	-0.051198	-0.052804
NMHC Cal Slope:	0.995709	0.993684
NMHC Cal Offset:	-0.017991	-0.017596

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

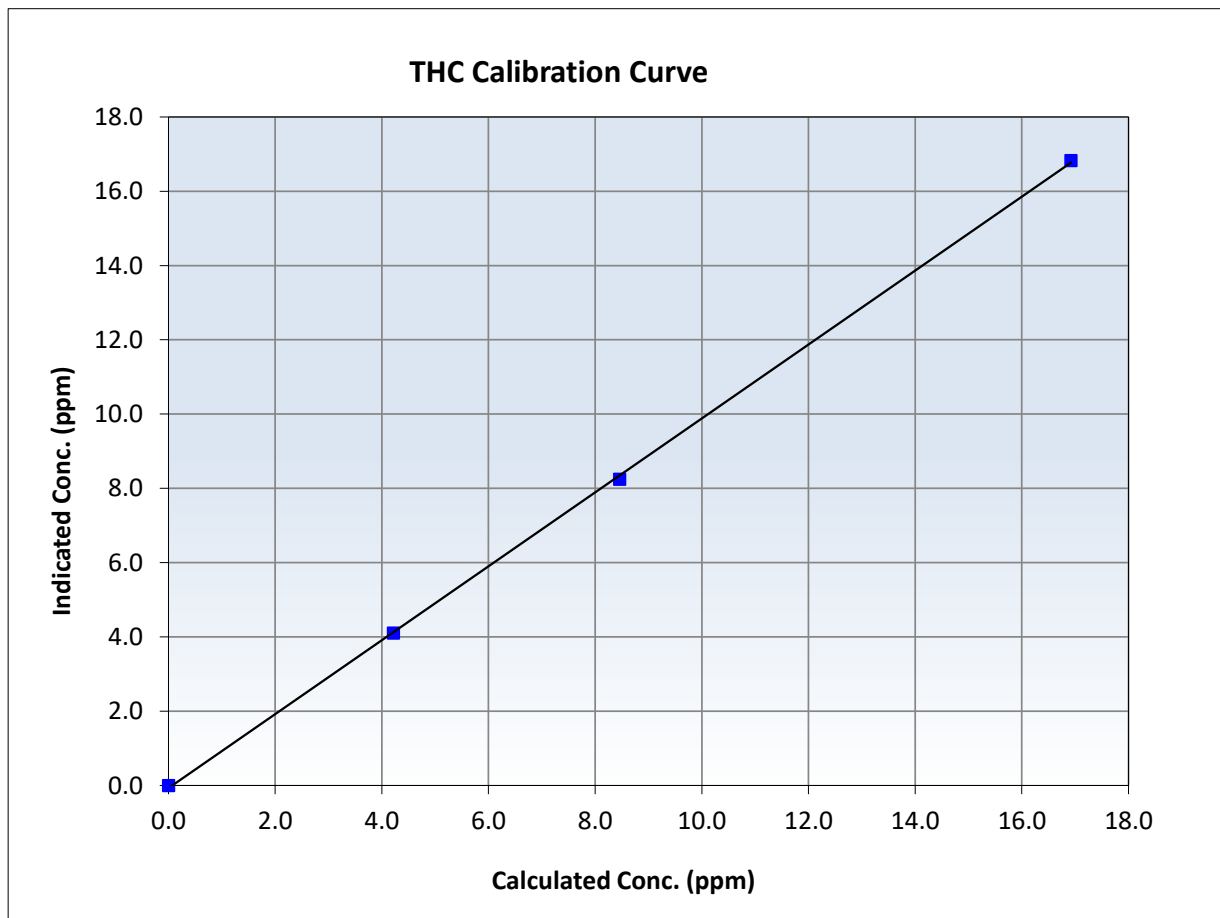
THC Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 16, 2026
Station Name:	Fort Hills	Station Number:	AMS 23
Start Time (MST):	8:07	End Time (MST):	11:52
Analyzer make:	Thermo 55i	Analyzer serial #:	12227620777

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999869	<i>≥0.995</i>
16.92	16.83	1.0054	Slope	0.995291	<i>0.90 - 1.10</i>
8.46	8.24	1.0263	Intercept	-0.070400	<i>+/-0.5</i>
4.22	4.11	1.0275			





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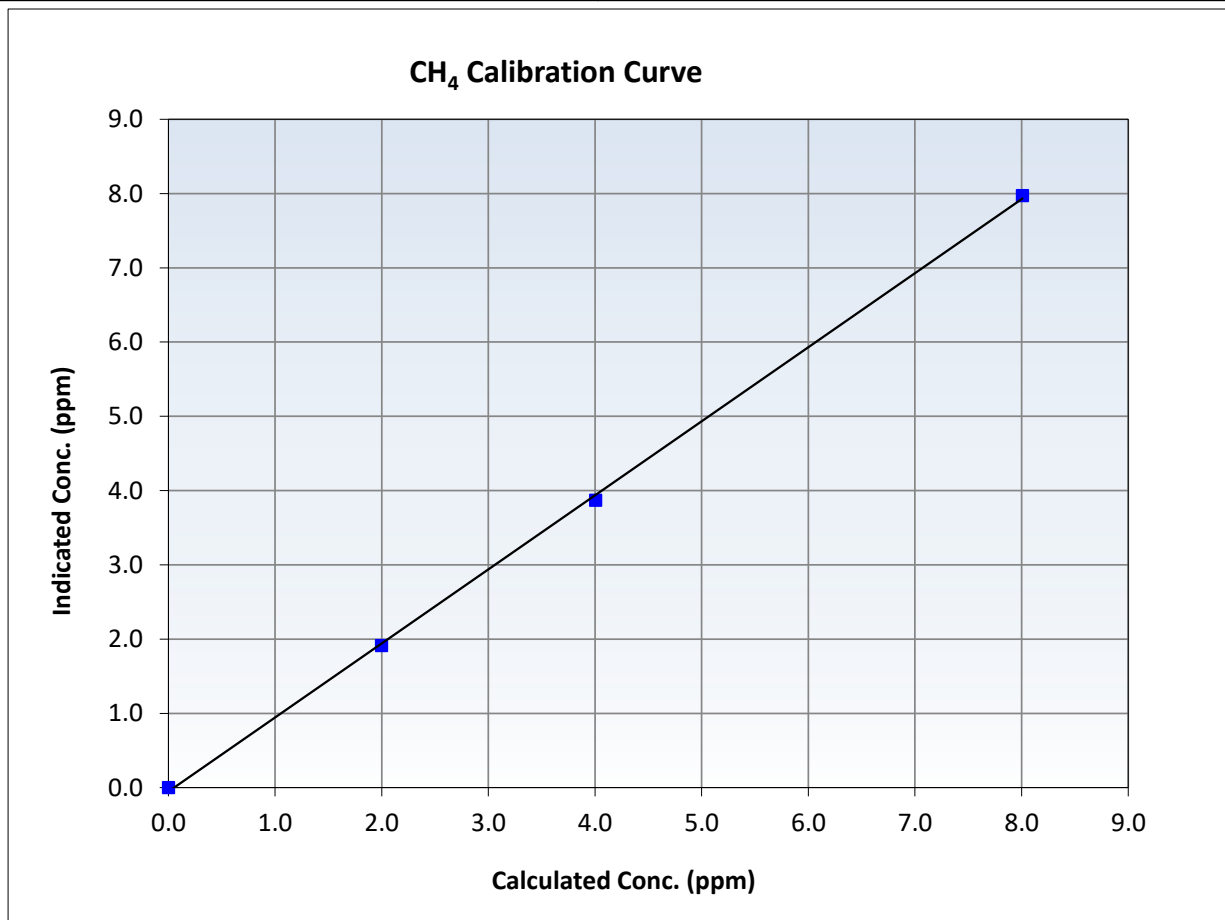
CH₄ Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 16, 2026
Station Name:	Fort Hills	Station Number:	AMS 23
Start Time (MST):	8:07	End Time (MST):	11:52
Analyzer make:	Thermo 55i	Analyzer serial #:	12227620777

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999721	<i>≥0.995</i>
8.01	7.97	1.0043	Slope	0.997222	<i>0.90 - 1.10</i>
4.00	3.87	1.0342	Intercept	-0.052804	<i>+/-0.5</i>
2.00	1.91	1.0434			





Wood Buffalo Environmental Association

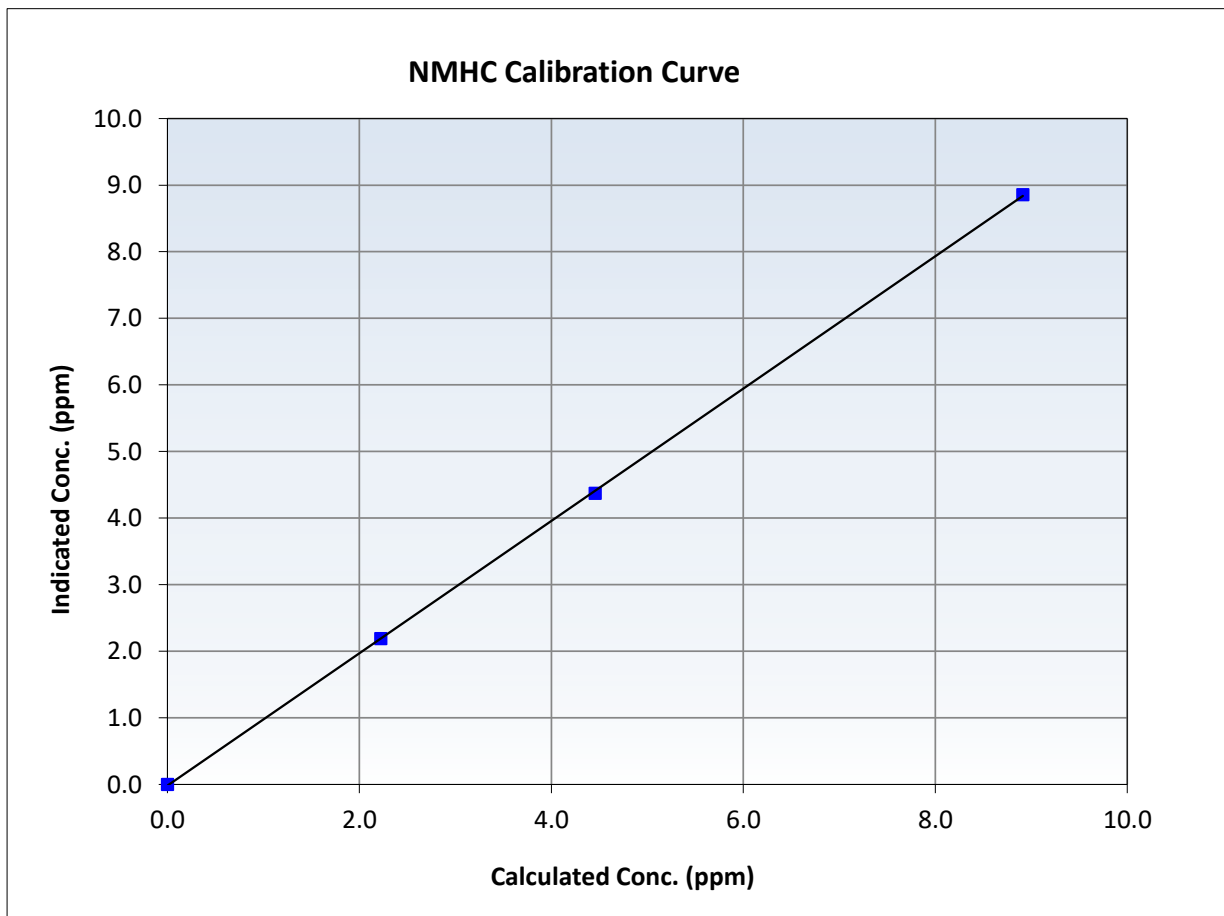
NMHC Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 16, 2026
Station Name:	Fort Hills	Station Number:	AMS 23
Start Time (MST):	8:07	End Time (MST):	11:52
Analyzer make:	Thermo 55i	Analyzer serial #:	12227620777

Calibration Data

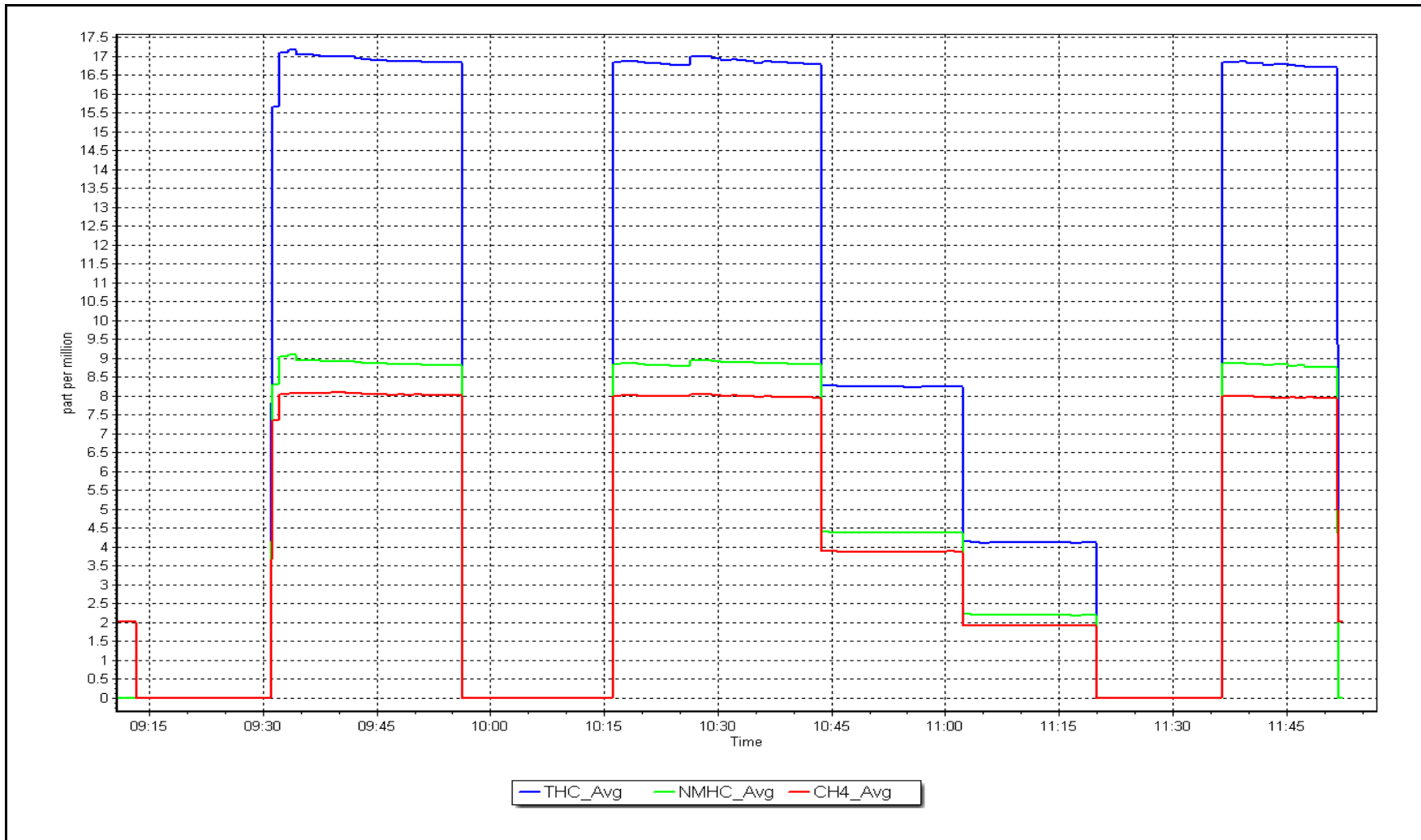
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999951	<i>≥0.995</i>
8.91	8.86	1.0062	Slope	0.993684	<i>0.90 - 1.10</i>
4.46	4.37	1.0192	Intercept	-0.017596	<i>+/-0.5</i>
2.22	2.19	1.0136			



NMHC Calibration Plot

Date: February 11, 2026

Location: Fort Hills





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Fort Hills
 Station number: AMS 23
 Calibration Date: February 9, 2026
 Last Cal Date: January 13, 2026
 Start time (MST): 7:45
 End time (MST): 12:08
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: CC358149
 NOX Cal Gas Conc: 60.30 ppm
 Removed Cylinder #:
 Removed Gas NOX Conc: 60.30 ppm
 NOX gas Diff:
 Calibrator Model: API T700
 ZAG make/model: API T701
 Cal Gas Expiry Date: January 5, 2032
 NO Cal Gas Conc: 60.10 ppm
 Removed Gas Exp Date:
 Removed Gas NO Conc: 60.10 ppm
 NO gas Diff:
 Serial Number: 1222
 Serial Number: 1117

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.1	-0.1	0.0	----	----
AF High point	4934	66.3	799.5	796.9	2.7	806.8	802.4	4.5	0.9909	0.9930
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 797.7 ppb		NO = 795.9 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = 1.1%	
Baseline Corr 1st pt	NO _x = 806.9 ppb		NO = 802.5 ppb			<u>As Found Statistics</u>		*Percent Change	NO = 0.8%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1152430007

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.997724	1.005857
NO _x Cal Offset:	-0.032918	-0.354711
NO Cal Slope:	1.000869	1.007094
NO Cal Offset:	-1.671760	-1.893263
NO ₂ Cal Slope:	0.997744	0.996830
NO ₂ Cal Offset:	-0.573608	-0.033525

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.966	0.966	NO bkgnd or offset:	2.8	2.8
NOX coeff or slope:	0.992	0.992	NOX bkgnd or offset:	2.9	2.9
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	148.4	148.4

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOx concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOx concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOx Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.1	0.0	0.0	----	----
High point	4934	66.3	799.5	796.9	2.7	804.5	802.0	2.6	0.9938	0.9936
Mid point	4967	33.2	400.4	399.0	1.3	400.9	397.8	3.1	0.9987	1.0031
Low point	4983	16.6	200.2	199.5	0.7	201.4	198.0	3.4	0.9941	1.0078
As left zero	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	----	----
As left span	4934	66.3	799.5	403.3	396.2	800.6	403.3	397.3	0.9987	1.0000
Average Correction Factor									0.9955	1.0015

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.0	----	----
High GPT point	795.5	401.8	396.4	395.1	1.0032	99.7%
Mid GPT point	795.5	596.2	202.0	201.2	1.0037	99.6%
Low GPT point	795.5	695.7	102.5	102.1	1.0034	99.7%
Average Correction Factor					1.0035	99.7%

Notes: No Maintenance or adjustments done.

Calibration Performed By: Melissa Lemay



Wood Buffalo Environmental Association

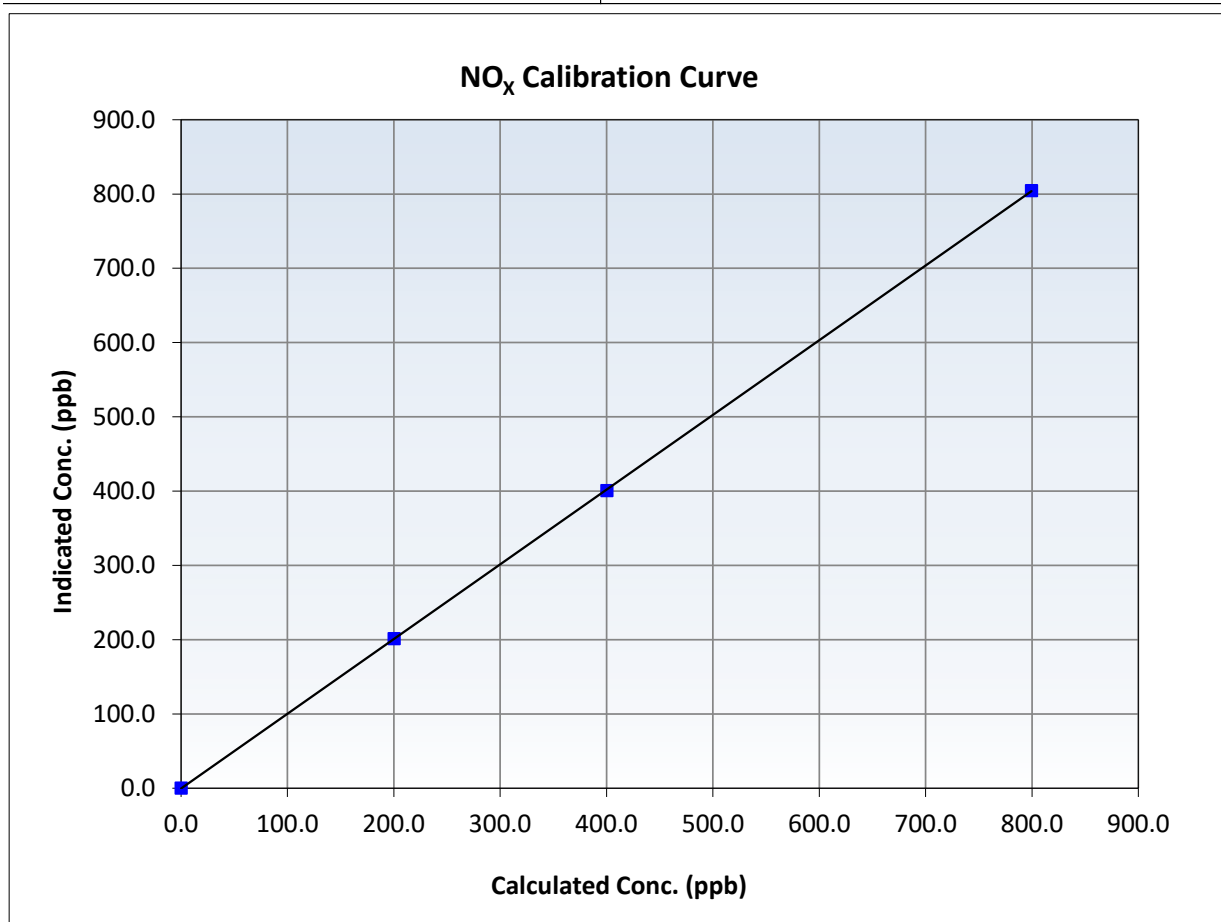
NO_x Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 13, 2026
Station Name:	Fort Hills	Station Number:	AMS 23
Start Time (MST):	7:45	End Time (MST):	12:08
Analyzer make:	Thermo 42i	Analyzer serial #:	1152430007

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999992	<i>≥0.995</i>
799.5	804.5	0.9938	Slope	1.005857	<i>0.90 - 1.10</i>
400.4	400.9	0.9987	Intercept	-0.354711	<i>+/-20</i>
200.2	201.4	0.9941			





Wood Buffalo Environmental Association

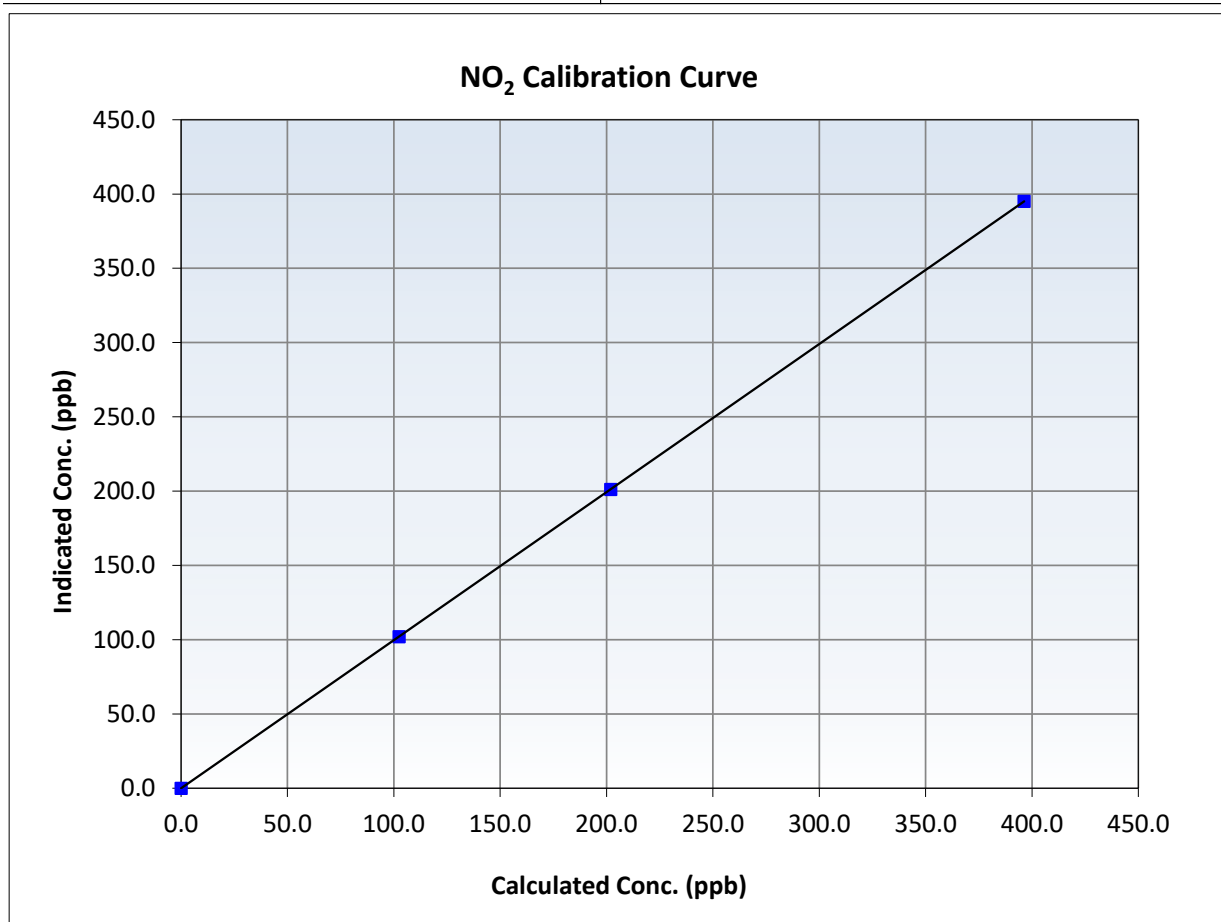
NO₂ Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 13, 2026
Station Name:	Fort Hills	Station Number:	AMS 23
Start Time (MST):	7:45	End Time (MST):	12:08
Analyzer make:	Thermo 42i	Analyzer serial #:	1152430007

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	1.000000	<i>≥0.995</i>
396.4	395.1	1.0032	Slope	0.996830	<i>0.90 - 1.10</i>
202.0	201.2	1.0037	Intercept	-0.033525	<i>+/-20</i>
102.5	102.1	1.0034			





Wood Buffalo Environmental Association

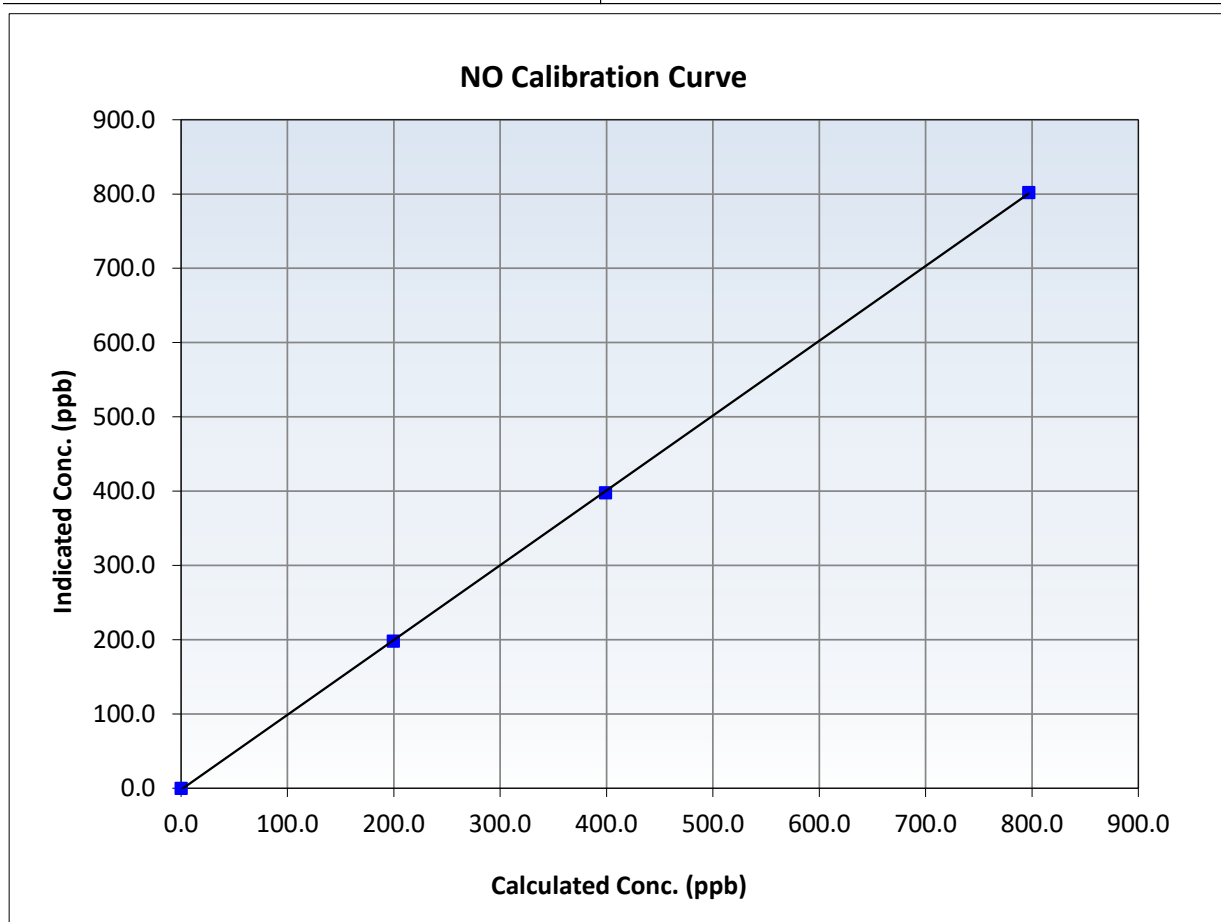
NO Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 13, 2026
Station Name:	Fort Hills	Station Number:	AMS 23
Start Time (MST):	7:45	End Time (MST):	12:08
Analyzer make:	Thermo 42i	Analyzer serial #:	1152430007

Calibration Data

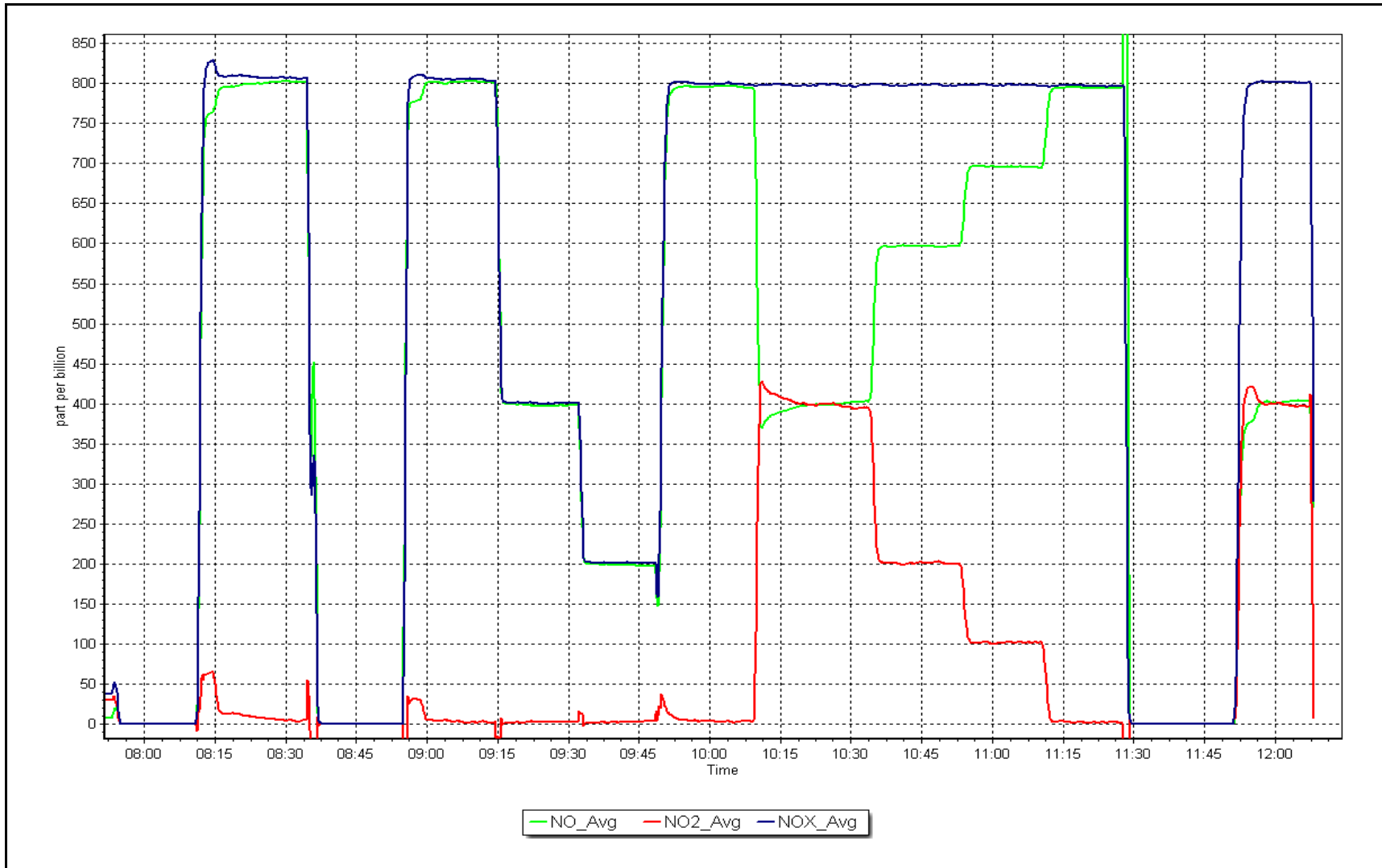
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999968	<i>≥0.995</i>
796.9	802.0	0.9936	Slope	1.007094	<i>0.90 - 1.10</i>
399.0	397.8	1.0031	Intercept	-1.893263	<i>+/-20</i>
199.5	198.0	1.0078			



NO_x Calibration Plot

Date: February 9, 2026

Location: Fort Hills





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Fort Hills Station number: AMS 23
 Calibration Date: February 11, 2026 Last Cal Date: January 14, 2026
 Start time (MST): 7:52 End time (MST): 8:49

Analyzer Make: API T640 S/N: 320
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388744
 Temp/RH standard: Alicat FP-25BT S/N: 388744

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-8.5	-9.4	-8.5	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	729.5	728.4	729.5	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	5.00	4.65	5.01	<input checked="" type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	31	----	31	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	4.2	PM w/ HEPA: _____	0.0	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: **10.9** Expiry Date: 16-Jul-26
 Lot No.: 100128-050-050

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test	11.1	14	10.8	<input checked="" type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: February 11, 2026
 Date Disposable Filter Changed: February 11, 2026

Post- maintenance Zero Verification: PM w/ HEPA: _____ 0 <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: February 11, 2026
 Date RH/T Sensor Cleaned: February 11, 2026

Notes: Leak Check, Flow and PMT checked before and after cleaning. PMT adjusted after cleaning of optical chamber and filter change out.

Calibration by: Melissa Lemay



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS25 WASKŌW OHCI PIMÂTISIWIN FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Waskow ohci Pimatisiwin	Station number: AMS 25
Calibration Date:	February 3, 2026	Last Cal Date: January 27, 2026
Start time (MST):	10:19	End time (MST): 13:39
Reason:	Routine	

Calibration Standards

Cal Gas Concentration:	49.70	ppm	Cal Gas Exp Date: March 10, 2031
Cal Gas Cylinder #:	CC342445		
Removed Cal Gas Conc:	49.70	ppm	Rem Gas Exp Date:
Removed Gas Cyl #:			Diff between cyl:
Calibrator Model:	API T700		Serial Number: 621
Zero Air Gen Model:	API T701		Serial Number: 4765

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number: 1118148497
Analyzer Range:	0-1000ppb	

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
Calibration slope:	0.998943	0.998399	Backgd or Offset:	12.7
Calibration intercept:	-0.393125	-0.752937	Coeff or Slope:	1.099
				12.5
				1.085

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.6	----
As found High point	4920	80.5	800.1	804.1	0.994
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	804.7	Previous response	798.9	*% change	0.7%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.4	----
High point	4920	80.5	800.1	798.3	1.002
Mid point	4960	40.2	399.6	397.8	1.004
Low point	4980	20.1	199.8	198.5	1.006
As left zero	5000	0.0	0.0	-0.1	----
As left span	4920	80.5	800.1	797.5	1.003
Average Correction Factor:					1.004

Notes: Span adjusted.

Calibration Performed By: Param Kaur



Wood Buffalo Environmental Association

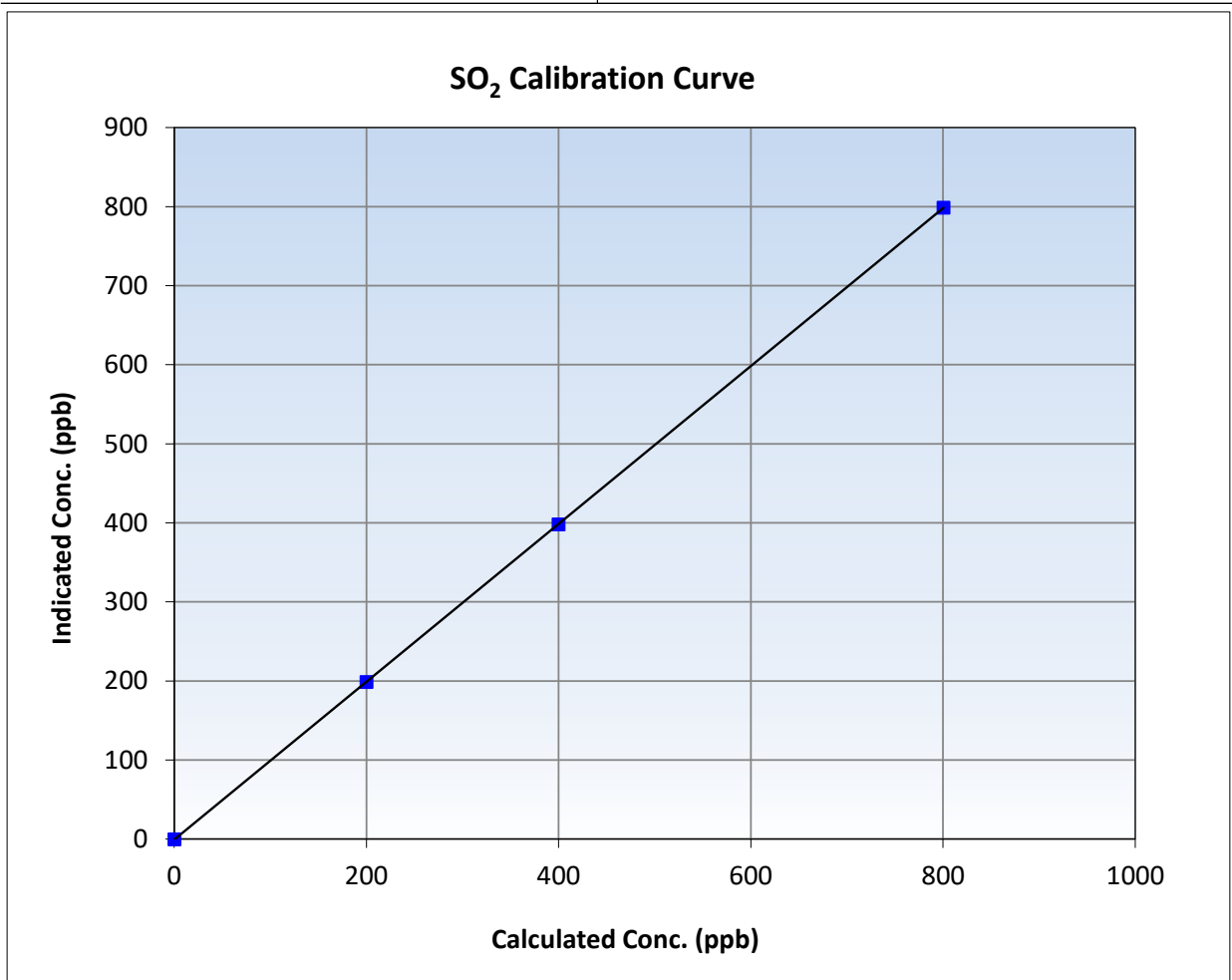
SO₂ Calibration Summary

Station Information

Calibration Date:	February 3, 2026	Previous Calibration:	January 27, 2026
Station Name:	Waskow ohci Pimatisiwin	Station Number:	AMS 25
Start Time (MST):	10:19	End Time (MST):	13:39
Analyzer make:	Thermo 43i	Analyzer serial #:	1118148497

Calibration Data

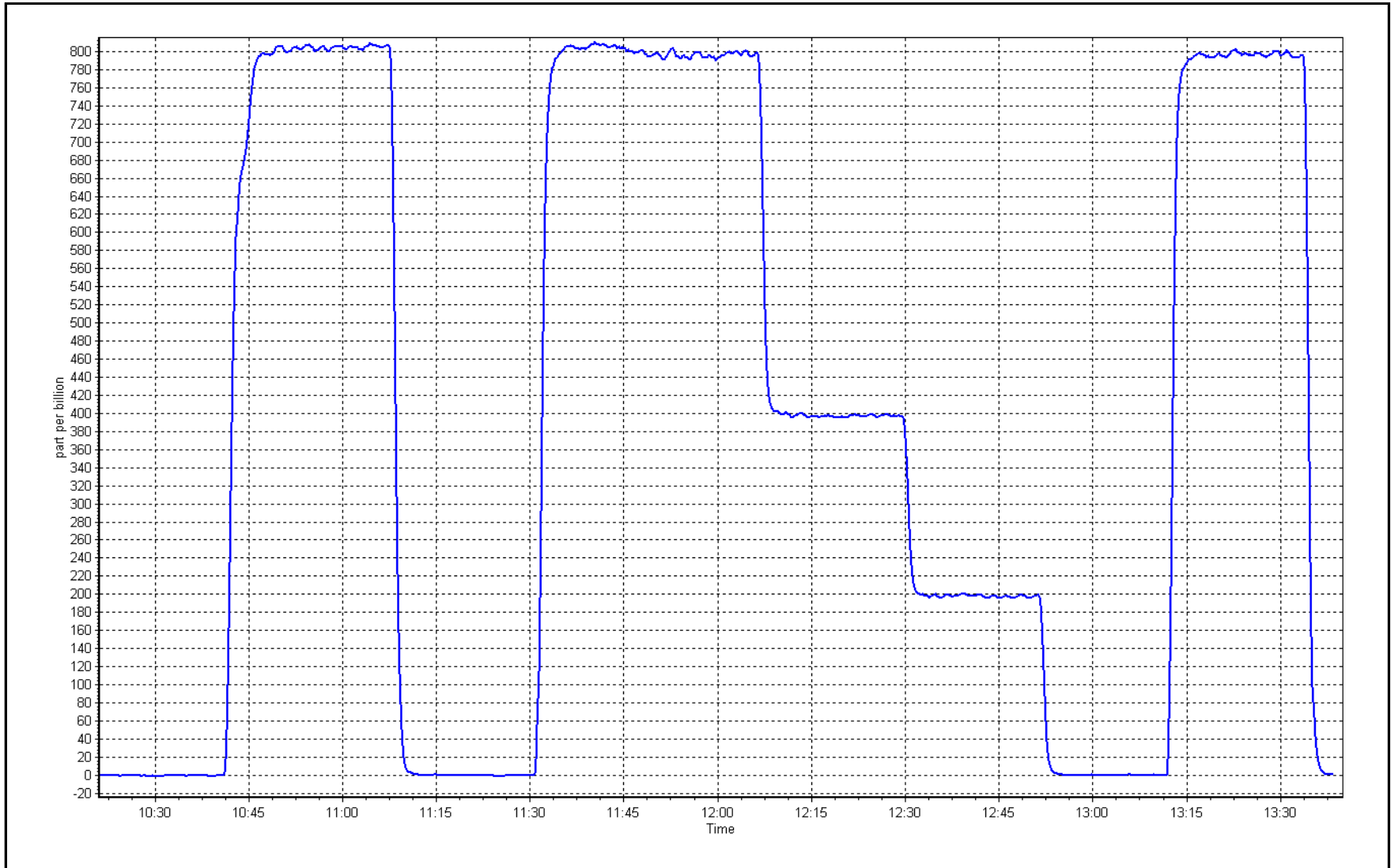
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.4	----	Correlation Coefficient	0.999999	≥0.995
800.1	798.3	1.0022	Slope	0.998399	0.90 - 1.10
399.6	397.8	1.0045	Intercept	-0.752937	+/-30
199.8	198.5	1.0065			



SO2 Calibration Plot

Date: February 3, 2026

Location: Waskow ohci Pimatisiwin





Wood Buffalo Environmental Association

H₂S Calibration Report

Station Information

Station Name:	Waskow ohci Pimatisiwin	Station number:	AMS 25
Calibration Date:	February 4, 2026	Last Cal Date:	January 26, 2026
Start time (MST):	10:02	End time (MST):	14:54
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.97	ppm	Cal Gas Exp Date:	January 3, 2026
Cal Gas Cylinder #:	CC517099			
Removed Cal Gas Conc:	4.97	ppm	Rem Gas Exp Date:	
Removed Gas Cyl #:			Diff between cyl:	
Calibrator Make/Model:	API T700		Serial Number:	747
ZAG Make/Model:	API T701		Serial Number:	261

Analyzer Information

Analyzer make:	Thermo 43i-LTE	Analyzer serial #:	1170050146
Converter make:	Global G-150	Converter serial #:	2024-287
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.000793	1.005218	Backgd or Offset:	3.86	3.89
Calibration intercept:	0.082279	-0.097644	Coeff or Slope:	1.152	1.152

H₂S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.2	----
As found High point	4919	80.5	80.0	80.9	0.987
As found Mid point	4960	40.3	40.1	40.5	0.984
As found Low point	4980	20.1	20.0	20.0	0.989
New cylinder response					
Baseline Corr As found:	81.1	Prev response:	80.17	*% change:	1.1%
Baseline Corr 2nd AF pt:	40.7	AF Slope:	1.013789	AF Intercept:	-0.197782
Baseline Corr 3rd AF pt:	20.2	AF Correlation:	0.999997	* = > +/-5% change initiates investigation	

H₂S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	4919	80.5	80.0	80.4	0.995
Mid point	4960	40.3	40.1	40.0	1.001
Low point	4980	20.1	20.0	20.1	0.994
As left zero	5000	0.0	0.0	-0.1	----
As left span	4920	80.0	800.0	815.2	0.981
SO2 Scrubber Check	4920	80.0	800.0	0.1	----
Date of last scrubber change:				Ave Corr Factor	0.997
Date of last converter efficiency test:	February 12, 2025			111.0%	efficiency

Notes: SOx scrubber check done after calibrator zero, passed. No adjustments made.

Calibration Performed By: Parampreet Kaur



Wood Buffalo Environmental Association

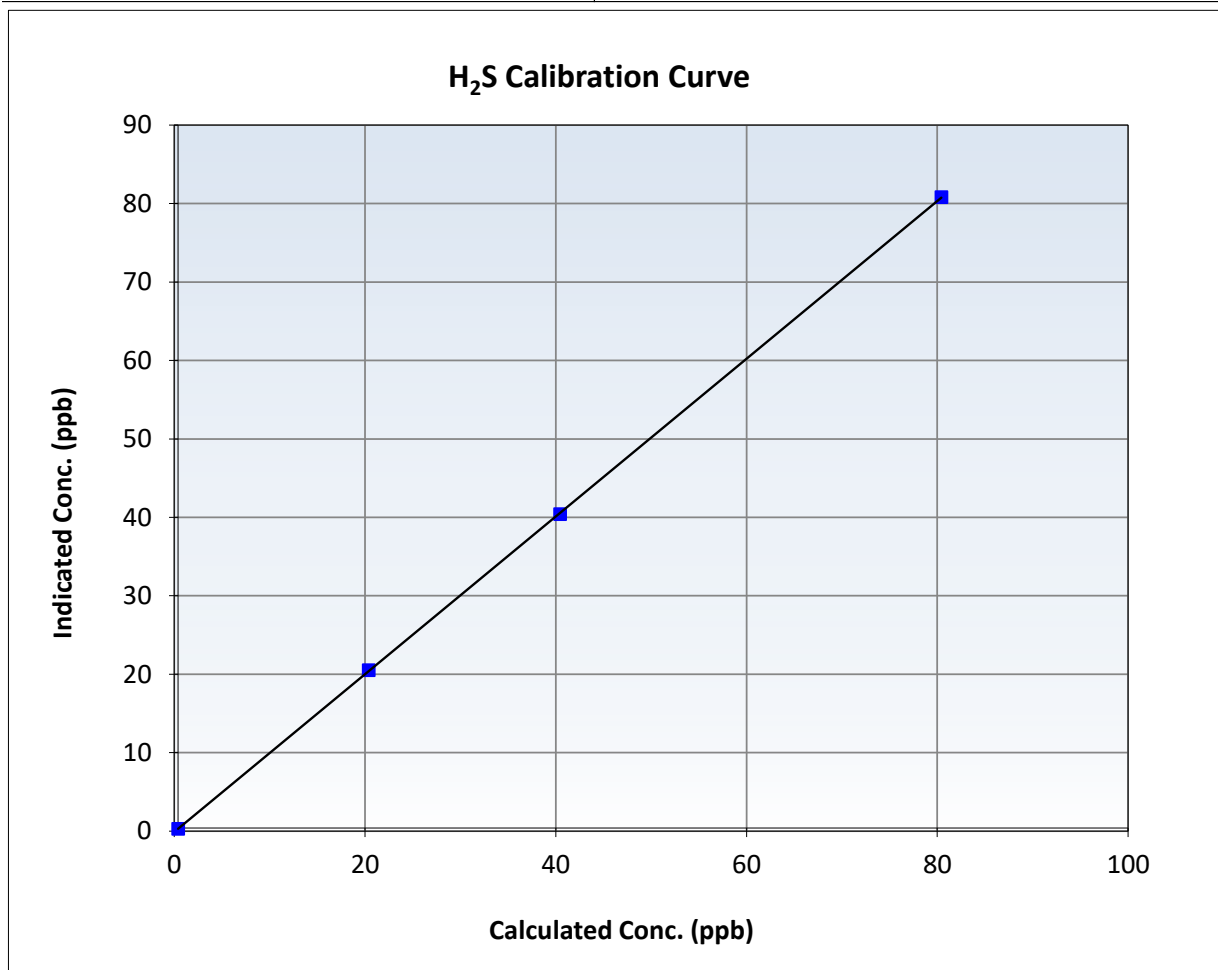
H₂S Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	January 26, 2026
Station Name:	Waskow ohci Pimatisiwin	Station Number:	AMS 25
Start Time (MST):	10:02	End Time (MST):	14:54
Analyzer make:	Thermo 43i-LTE	Analyzer serial #:	1170050146

Calibration Data

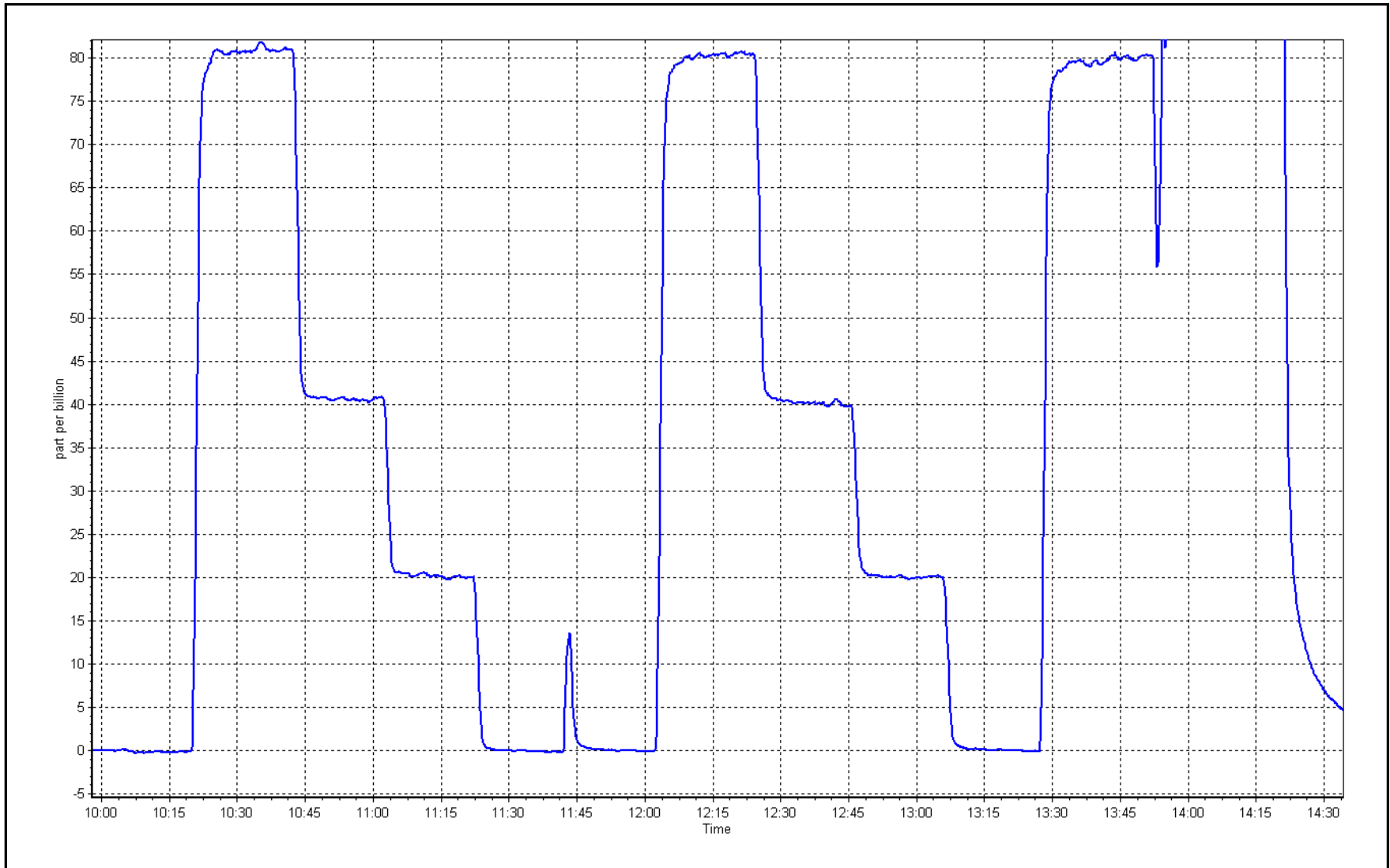
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.1	----	Correlation Coefficient	0.999988	≥ 0.995
80.0	80.4	0.9953	Slope	1.005218	$0.90 - 1.10$
40.1	40.0	1.0014	Intercept	-0.097644	± 3
20.0	20.1	0.9940			



H₂S Calibration Plot

Date: February 4, 2026

Location: Waskow ohci Pimatisiwin





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS27 JACKFISH 2/3 FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Jackfish 2/3	Station number:	AMS 27
Calibration Date:	February 4, 2026	Last Cal Date:	January 7, 2026
Start time (MST):	11:01	End time (MST):	14:05
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.58	ppm	Cal Gas Exp Date:	December 29, 2028
Cal Gas Cylinder #:	SG9133974BAL			
Removed Cal Gas Conc:	50.58	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Model:	API T700		Serial Number:	5252
Zero Air Gen Model:	API 701		Serial Number:	268

Analyzer Information

Analyzer make:	Thermo 43iQ-TL	Serial Number:	12124313138
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.001203	1.001861	Backgd or Offset:	11.4	11.1
Calibration intercept:	-1.277263	-0.457640	Coeff or Slope:	0.939	0.931

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.2	----
As found High point	4913	78.9	799.4	807.6	0.990
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	807.8	Previous response	799.1	*% change	1.1%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.2	----
High point	4913	78.9	799.4	800.5	0.999
Mid point	4955	39.5	400.0	400.5	0.999
Low point	4971	19.7	199.7	199.1	1.003
As left zero	5000	0.0	0.0	-0.4	----
As left span	4913	78.9	799.4	804.6	0.994
Average Correction Factor:					1.000

Notes: Changed the sample inlet filter after as founds. Span adjusted

Calibration Performed By: Jason Brooks and Mohammed Kashif



Wood Buffalo Environmental Association

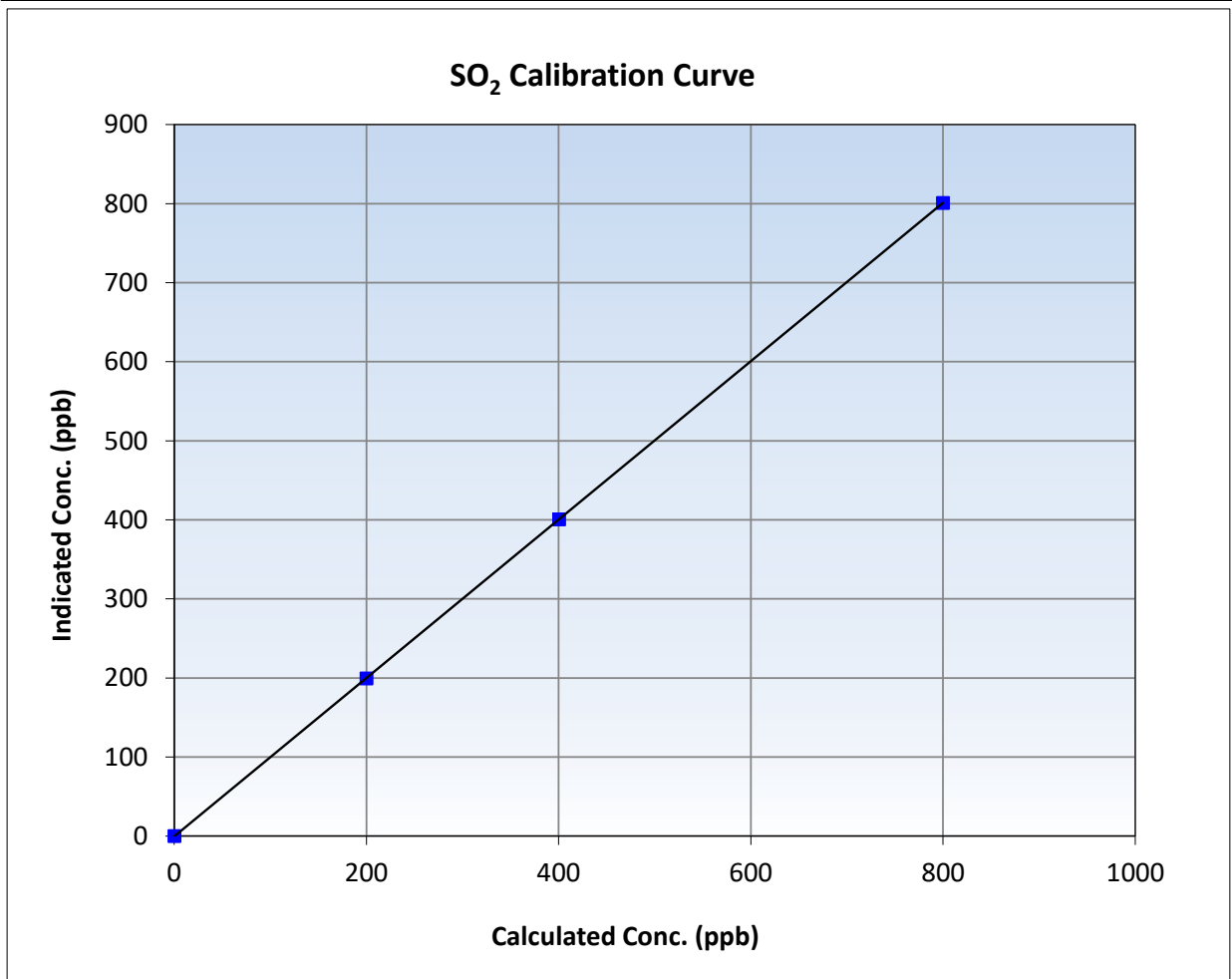
SO₂ Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	January 7, 2026
Station Name:	Jackfish 2/3	Station Number:	AMS 27
Start Time (MST):	11:01	End Time (MST):	14:05
Analyzer make:	Thermo 43iQ-TL	Analyzer serial #:	12124313138

Calibration Data

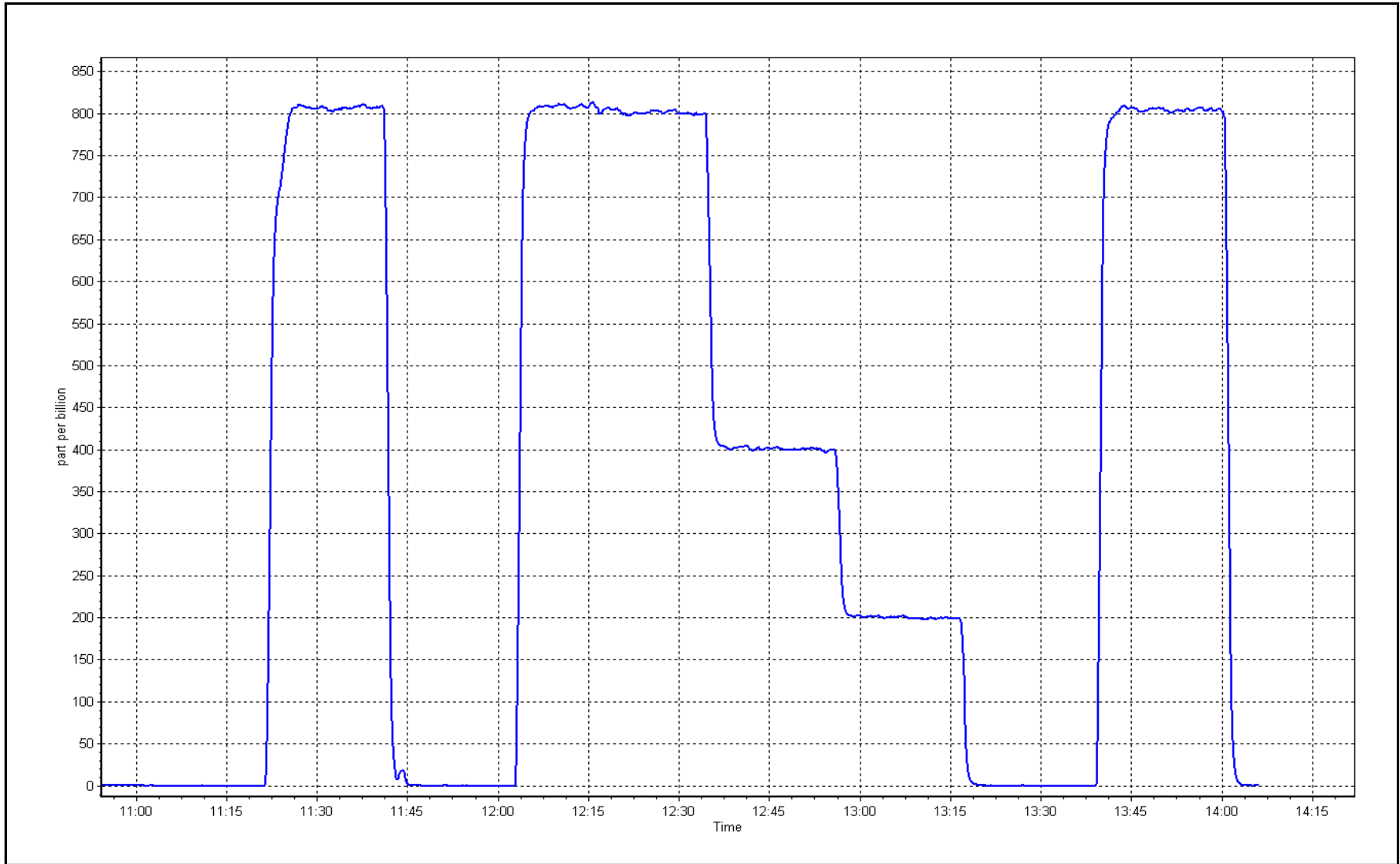
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.2	----	Correlation Coefficient	0.999999	≥0.995
799.4	800.5	0.9987	Slope	1.001861	0.90 - 1.10
400.0	400.5	0.9988	Intercept	-0.457640	+/-30
199.7	199.1	1.0028			



SO2 Calibration Plot

Date: February 4, 2026

Location: Jackfish 2/3





Wood Buffalo Environmental Association

H₂S Calibration Report

Station Information

Station Name:	Jackfish 2/3	Station number:	AMS 27
Calibration Date:	February 10, 2026	Last Cal Date:	January 13, 2026
Start time (MST):	13:12	End time (MST):	17:42
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.87	ppm	Cal Gas Exp Date:	September 5, 2027
Cal Gas Cylinder #:	CC523090			
Removed Cal Gas Conc:	4.87	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700		Serial Number:	5252
ZAG Make/Model:	Teledyne API T701H		Serial Number:	268

Analyzer Information

Analyzer make:	Thermo 43iQ	Analyzer serial #:	12228021055
Converter make:	Global G150	Converter serial #:	2022-195
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.007952	1.010524	Backgd or Offset:	3.17	3.17
Calibration intercept:	0.075963	-0.064037	Coeff or Slope:	1.071	1.071

H₂S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.1	----
As found High point	4911	82.0	80.0	80.5	0.992
As found Mid point	4950	41.0	40.0	40.3	0.990
As found Low point	4972	20.5	20.0	20.2	0.985
New cylinder response					
Baseline Corr As found:	80.6	Prev response:	80.69	*% change:	-0.1%
Baseline Corr 2nd AF pt:	40.4	AF Slope:	1.007238	AF Intercept:	-0.024041
Baseline Corr 3rd AF pt:	20.3	AF Correlation:	0.999996	<i>* = > +/-5% change initiates investigation</i>	

H₂S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4911	82.0	80.0	80.8	0.990
Mid point	4950	41.0	40.0	40.3	0.993
Low point	4972	20.5	20.0	20.1	0.995
As left zero	5000	0.0	0.0	0.0	----
As left span	4911	82.0	80.0	81.2	0.985
SO2 Scrubber Check	4915	78.9	790.0	0.1	----
Date of last scrubber change:	18-Nov-25		Ave Corr Factor		0.992
Date of last converter efficiency test:	April 23, 2025		91.4% efficiency		

Notes: Changed sample inlet filter after as founds. Scrubber check passed. No adjustments made.

Calibration Performed By: Mohammed Kashif



Wood Buffalo Environmental Association

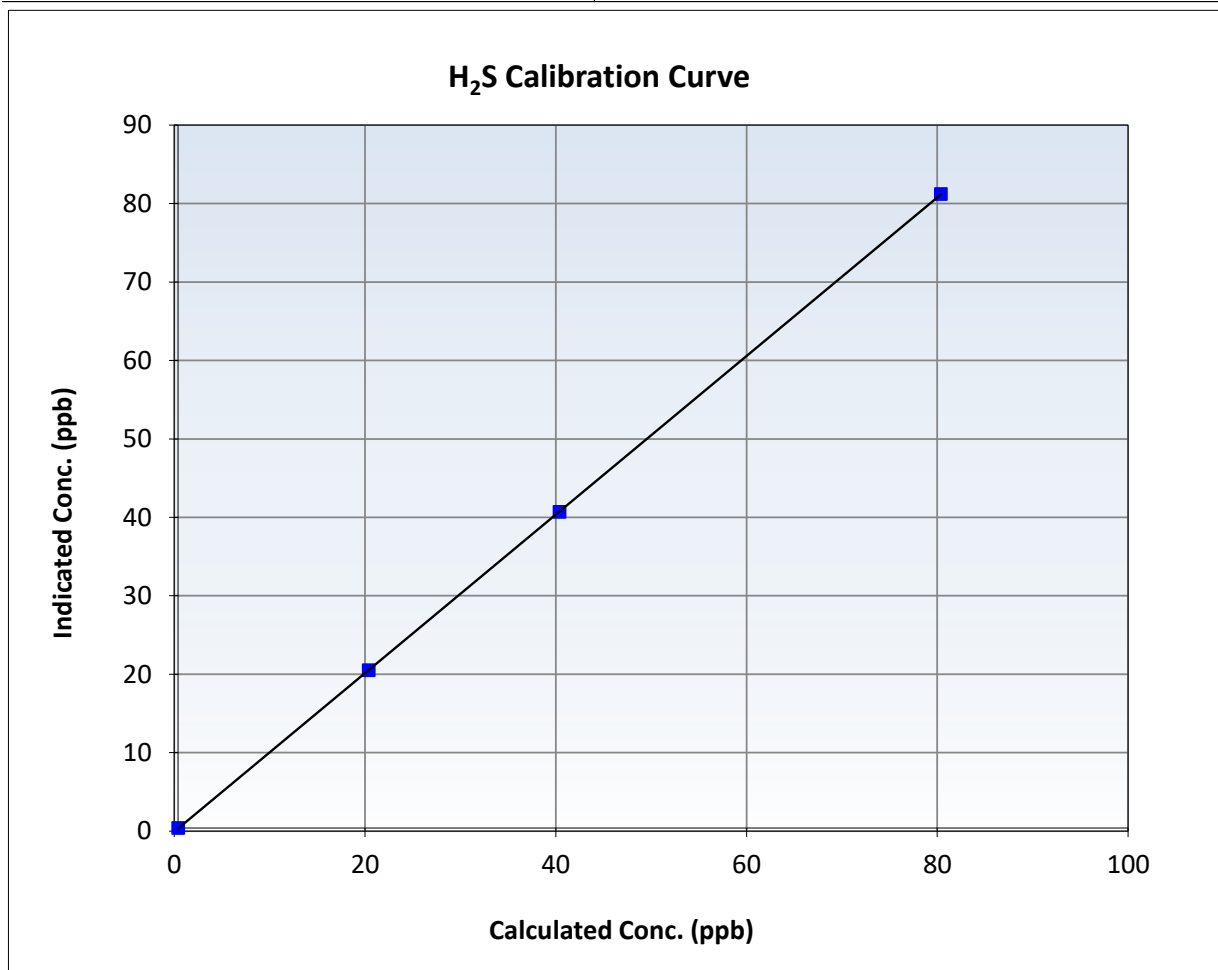
H₂S Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 13, 2026
Station Name:	Jackfish 2/3	Station Number:	AMS 27
Start Time (MST):	13:12	End Time (MST):	17:42
Analyzer make:	Thermo 43iQ	Analyzer serial #:	12228021055

Calibration Data

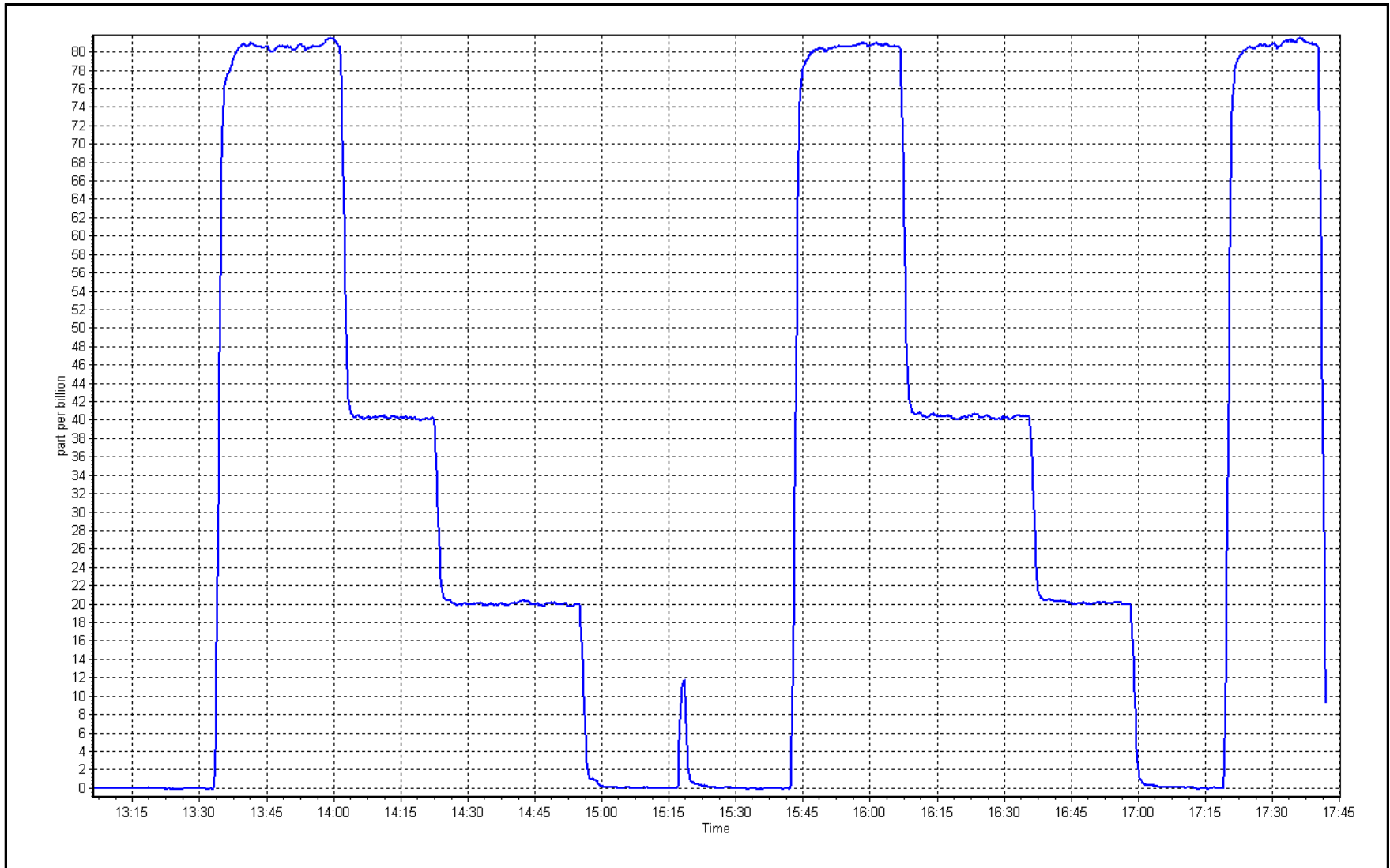
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999997	≥0.995
80.0	80.8	0.9899	Slope	1.010524	0.90 - 1.10
40.0	40.3	0.9927	Intercept	-0.064037	+/-3
20.0	20.1	0.9949			



H₂S Calibration Plot

Date: February 10, 2026

Location: Jackfish 2/3





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Jackfish 2/3
 Station number: AMS 27
 Calibration Date: February 9, 2026
 Last Cal Date: January 13, 2026
 Start time (MST): 12:03
 End time (MST): 18:10
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: CC757838
 NOX Cal Gas Conc: 60.30 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 60.30 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T750
 ZAG make/model: Teledyne API T751H
 Cal Gas Expiry Date: January 9, 2032
 NO Cal Gas Conc: 60.20 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 60.20 ppm
 NO gas Diff:
 Serial Number: 282
 Serial Number: 321

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	2.5	2.5	0.0	----	----
AF High point	4924	66.3	801.1	799.8	1.3	777.1	777.6	-0.5	1.0343	1.0319
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 800.4 ppb		NO = 801.6 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -3.3%	
Baseline Corr 1st pt	NO _x = 774.6 ppb		NO = 775.1 ppb			<u>As Found Statistics</u>		*Percent Change	NO = -3.4%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: API T200
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1035

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.834	0.863	NO bkgnd or offset:	-12.4	-4.9
NOX coeff or slope:	0.827	0.857	NOX bkgnd or offset:	-12.2	-3.7
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	5.6	4.9

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	1.000774	1.002659
NO _x Cal Offset:	-1.356830	-0.717894
NO Cal Slope:	1.005165	1.003038
NO Cal Offset:	-2.337023	-1.717405
NO ₂ Cal Slope:	0.996488	0.999995
NO ₂ Cal Offset:	-0.462369	-0.220545

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	-0.2	0.1	-0.4	----	----
High point	4924	66.3	801.1	799.8	1.3	802.9	801.6	1.4	0.9978	0.9978
Mid point	4958	33.2	401.1	400.4	0.7	400.9	398.5	2.4	1.0005	1.0049
Low point	4983	16.6	200.2	199.9	0.3	199.7	197.3	2.4	1.0026	1.0131
As left zero	5000	0.0	0.0	0.0	0.0	0.2	0.8	-0.6	----	----
As left span	4924	66.3	801.1	388.5	412.6	797.0	388.5	408.4	1.0052	1.0000
Average Correction Factor									1.0003	1.0052

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	-0.4	----	----
High GPT point	795.6	382.2	414.7	414.5	1.0006	99.9%
Mid GPT point	795.6	583.0	213.9	213.5	1.0020	99.8%
Low GPT point	795.6	677.7	119.2	119.4	0.9986	100.1%
Average Correction Factor					1.0004	100.0%

Notes: Changed sample inlet filter after as founds. Adjusted zero and span.

Calibration Performed By: Mohammed Kashif



Wood Buffalo Environmental Association

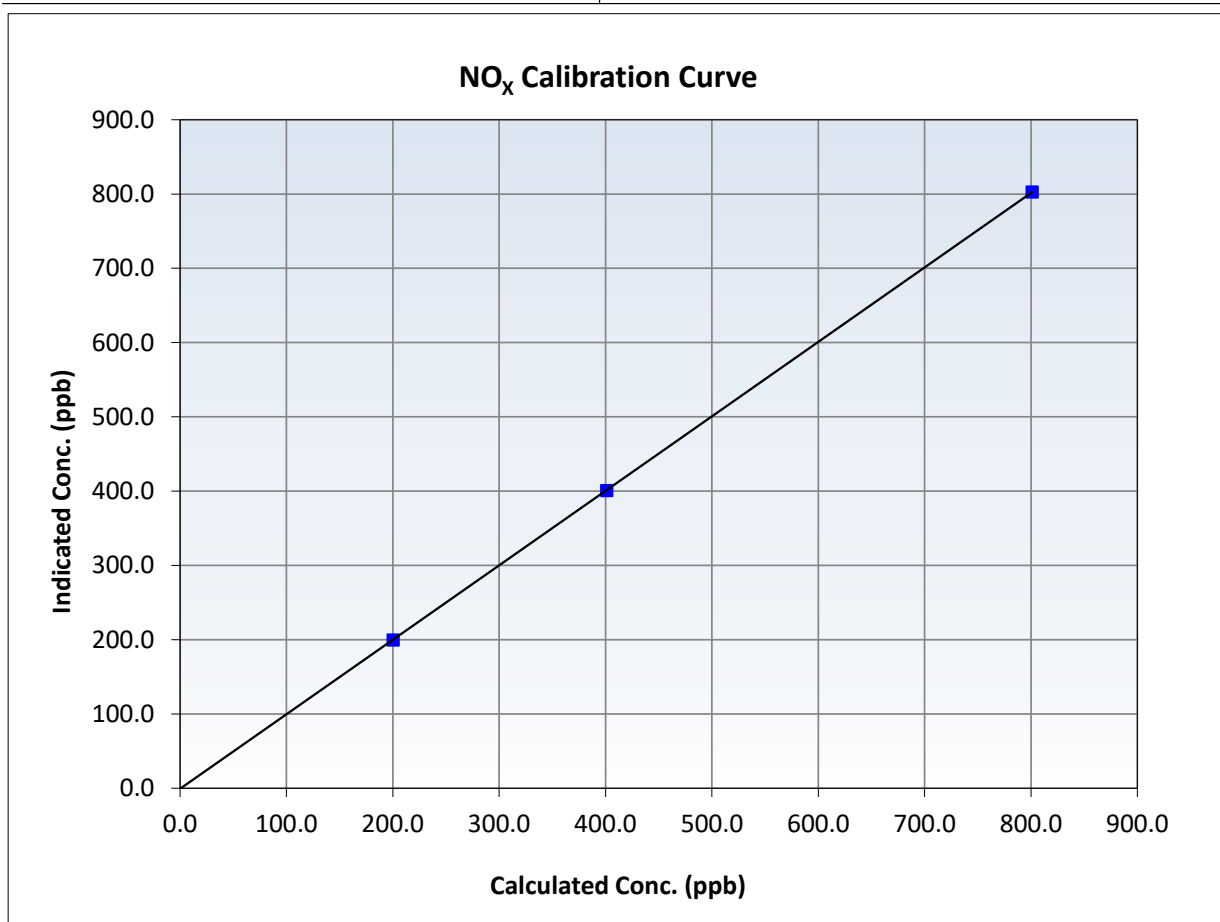
NO_x Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 13, 2026
Station Name:	Jackfish 2/3	Station Number:	AMS 27
Start Time (MST):	12:03	End Time (MST):	18:10
Analyzer make:	API T200	Analyzer serial #:	1035

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.2	----	Correlation Coefficient	0.999998	<i>≥0.995</i>
801.1	802.9	0.9978	Slope	1.002659	<i>0.90 - 1.10</i>
401.1	400.9	1.0005	Intercept	-0.717894	<i>+/-20</i>
200.2	199.7	1.0026			





Wood Buffalo Environmental Association

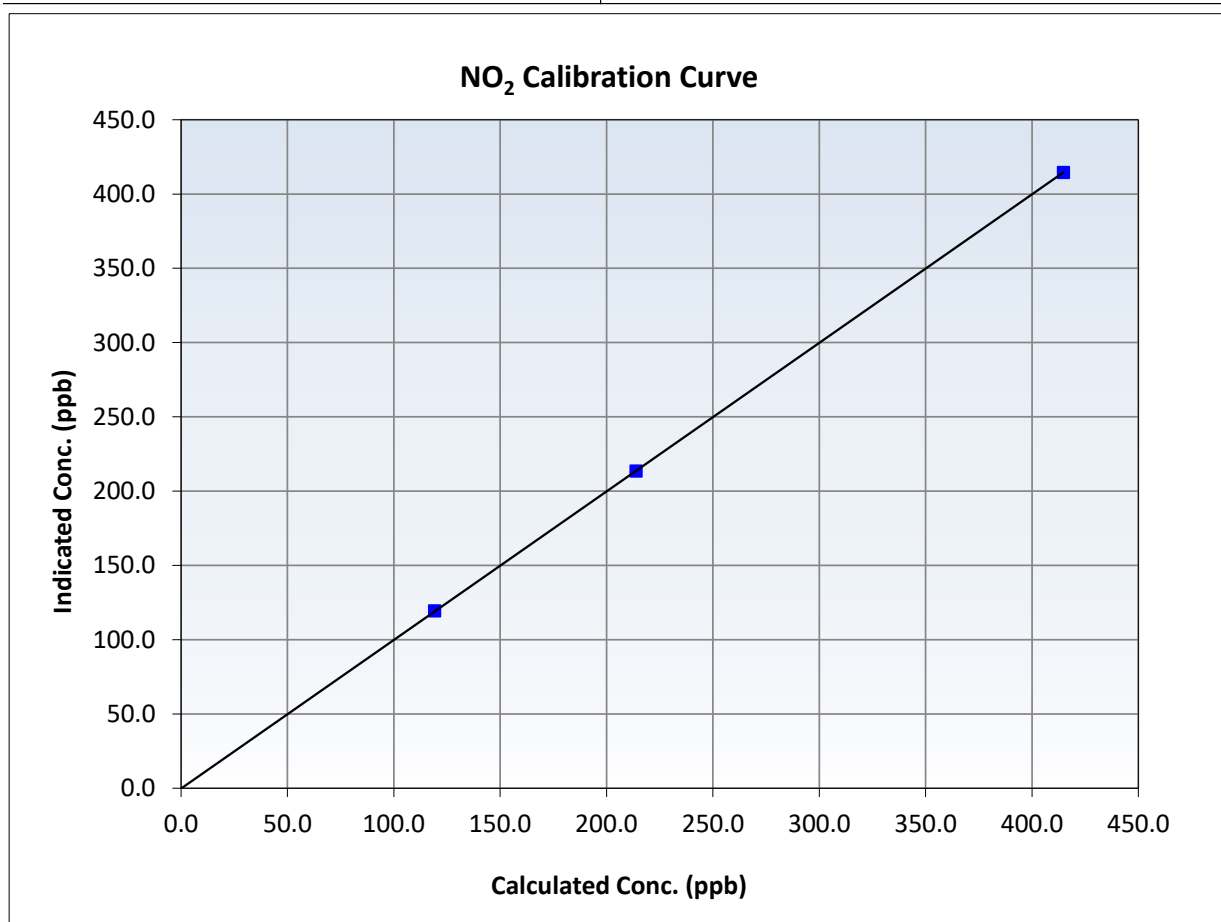
NO₂ Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 13, 2026
Station Name:	Jackfish 2/3	Station Number:	AMS 27
Start Time (MST):	12:03	End Time (MST):	18:10
Analyzer make:	API T200	Analyzer serial #:	1035

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.4	----	Correlation Coefficient	0.999998	≥0.995
414.7	414.5	1.0006	Slope	0.999995	0.90 - 1.10
213.9	213.5	1.0020	Intercept	-0.220545	+/-20
119.2	119.4	0.9986			





Wood Buffalo Environmental Association

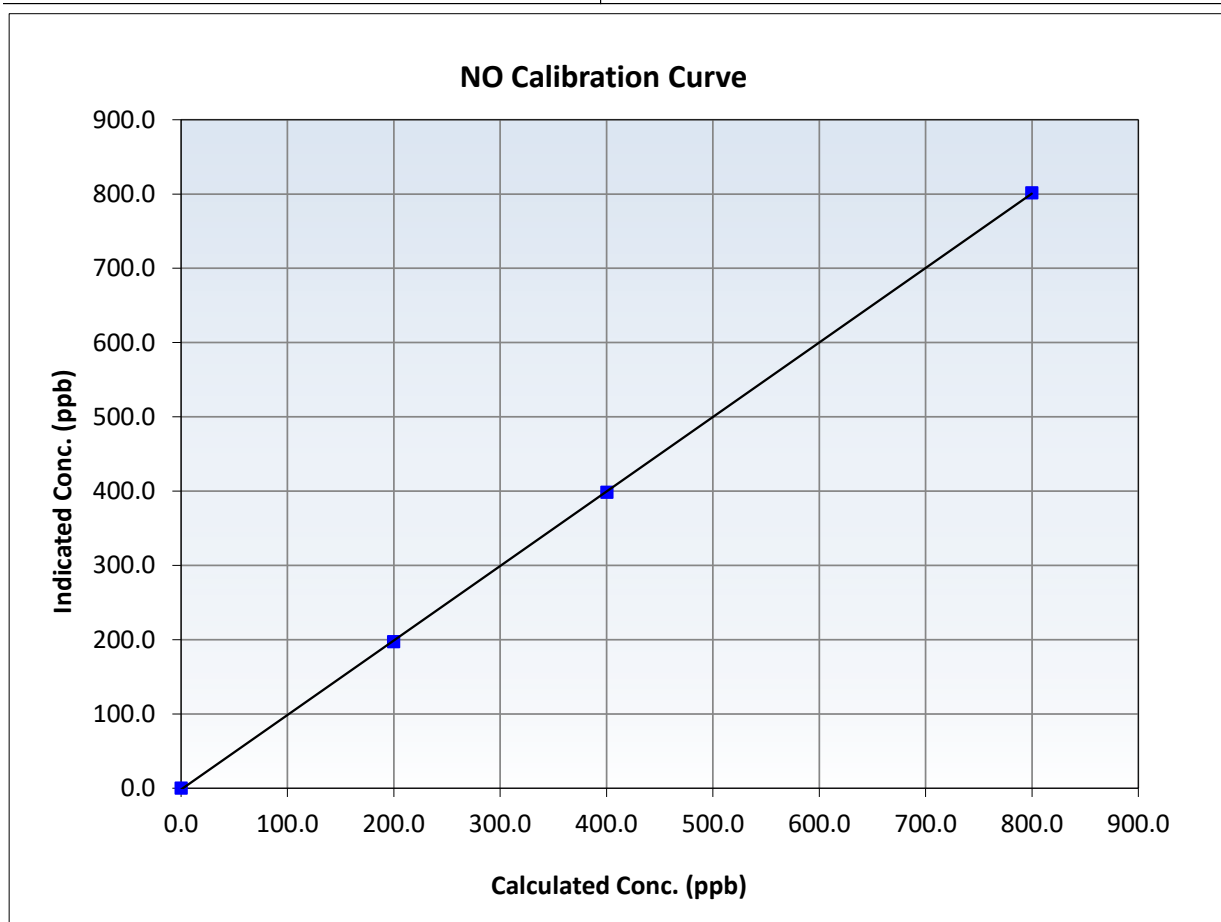
NO Calibration Summary

Station Information

Calibration Date:	February 9, 2026	Previous Calibration:	January 13, 2026
Station Name:	Jackfish 2/3	Station Number:	AMS 27
Start Time (MST):	12:03	End Time (MST):	18:10
Analyzer make:	API T200	Analyzer serial #:	1035

Calibration Data

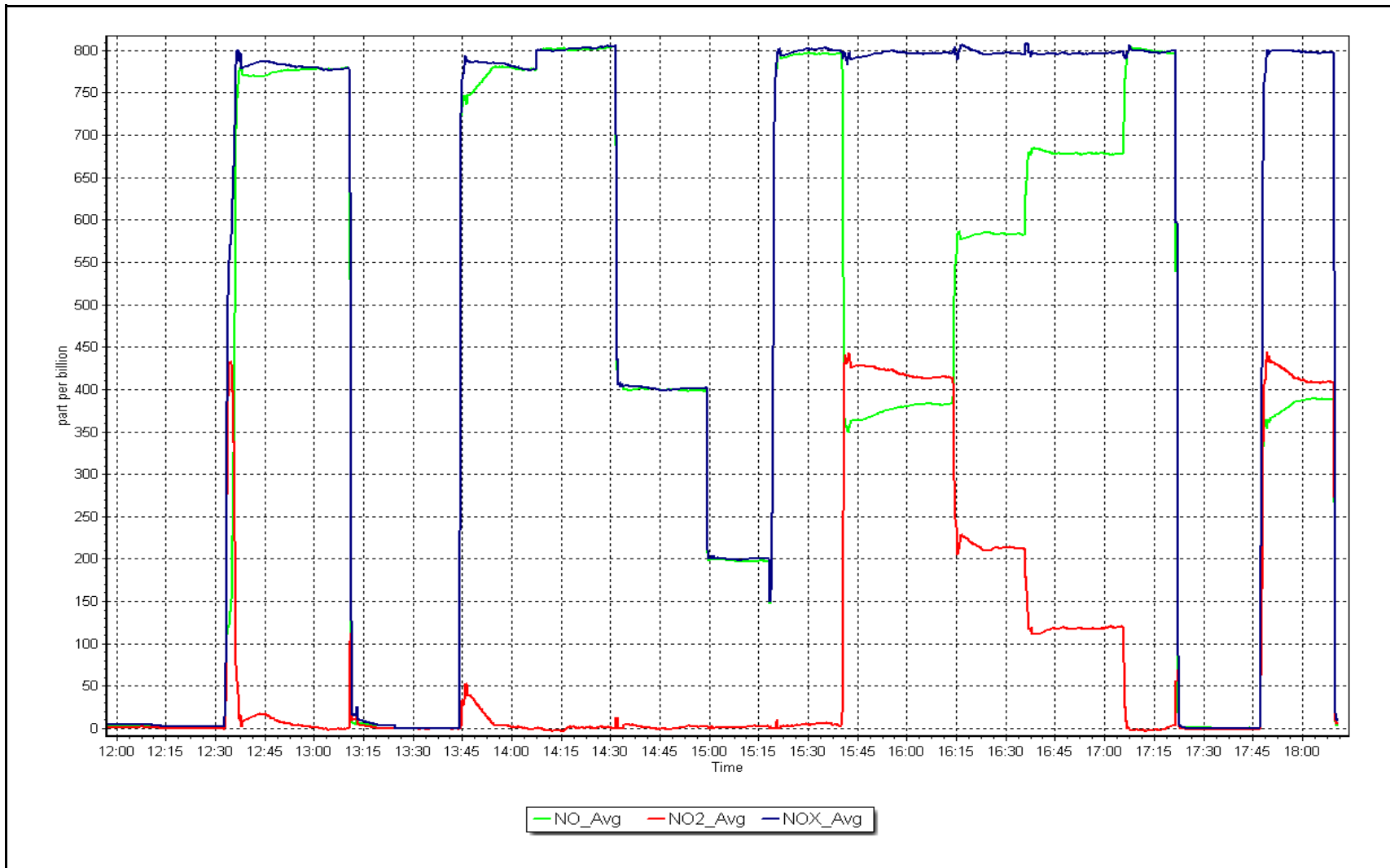
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999975	<i>≥0.995</i>
799.8	801.6	0.9978	Slope	1.003038	<i>0.90 - 1.10</i>
400.4	398.5	1.0049	Intercept	-1.717405	<i>+/-20</i>
199.9	197.3	1.0131			



NO_x Calibration Plot

Date: February 9, 2026

Location: Jackfish 2/3





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS29 SURMONT 2 FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Surmont 2	Station number:	AMS 29
Calibration Date:	February 3, 2026	Last Cal Date:	January 14, 2026
Start time (MST):	10:47	End time (MST):	14:11
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	49.95	ppm	Cal Gas Exp Date:	October 9, 2023
Cal Gas Cylinder #:	CC356229			
Removed Cal Gas Conc:	49.95	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Model:	Teledyne API T700		Serial Number:	5472
Zero Air Gen Model:	Teledyne API T701		Serial Number:	135

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	1170050150
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.003816	1.000446	Backgd or Offset:	15.2	14.6
Calibration intercept:	-1.759945	-1.080636	Coeff or Slope:	0.950	0.950

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.7	----
As found High point	4920	80.1	800.2	801.0	0.998
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	801.7	Previous response	801.5	*% change	0.0%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		<i>* = > +/-5% change initiates investigation</i>	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4920	80.1	800.2	800.0	1.000
Mid point	4960	40.0	399.6	398.2	1.004
Low point	4980	20.0	199.8	197.7	1.011
As left zero	5000	0.0	0.0	0.2	----
As left span	4920	80.1	800.2	803.0	0.997
Average Correction Factor:					1.005

Notes: Changed sample inlet filter after as founds. Adjusted zero.

Calibration Performed By: Braiden Boutilier



Wood Buffalo Environmental Association

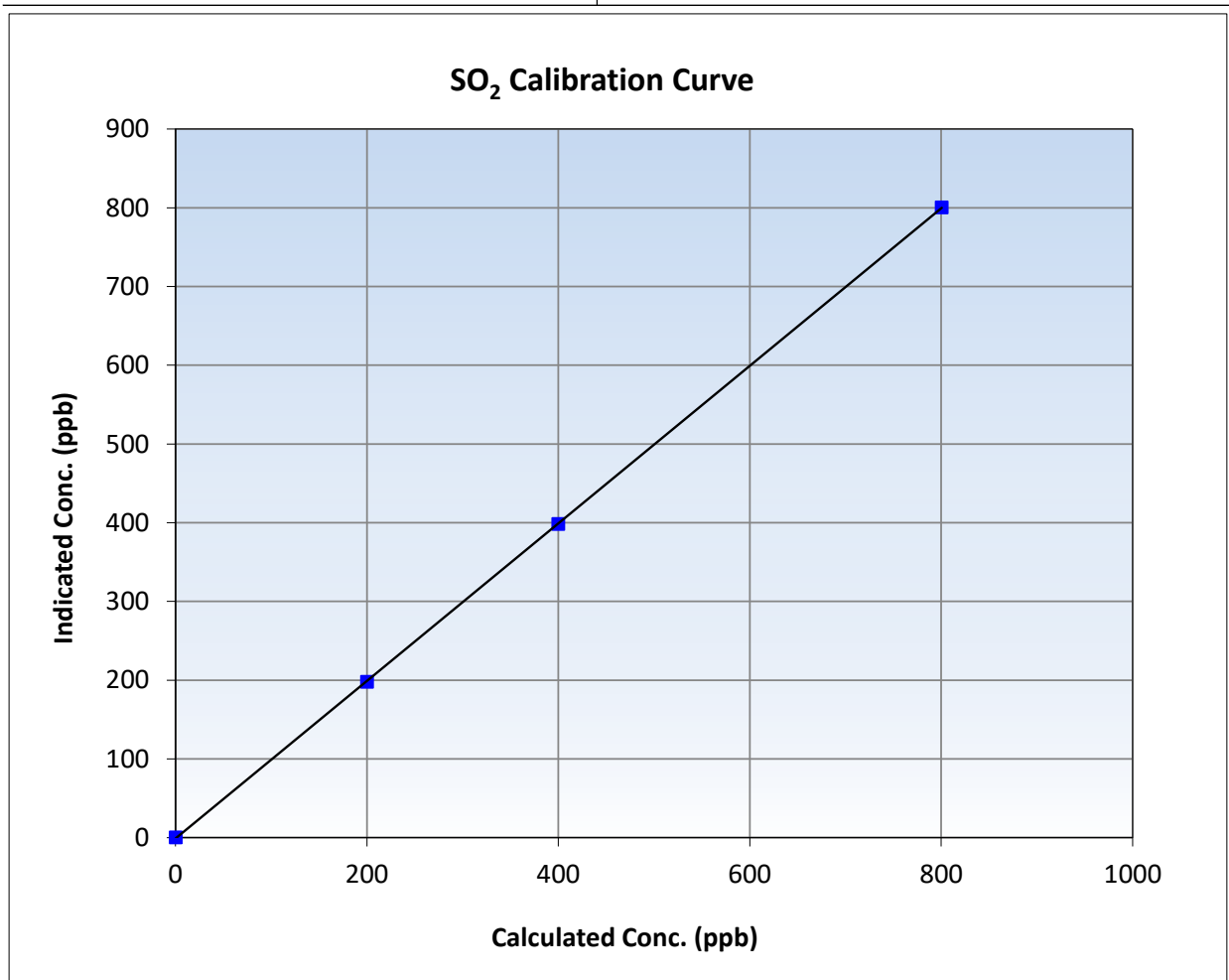
SO₂ Calibration Summary

Station Information

Calibration Date:	February 3, 2026	Previous Calibration:	January 14, 2026
Station Name:	Surmont 2	Station Number:	AMS 29
Start Time (MST):	10:47	End Time (MST):	14:11
Analyzer make:	Thermo 43i	Analyzer serial #:	1170050150

Calibration Data

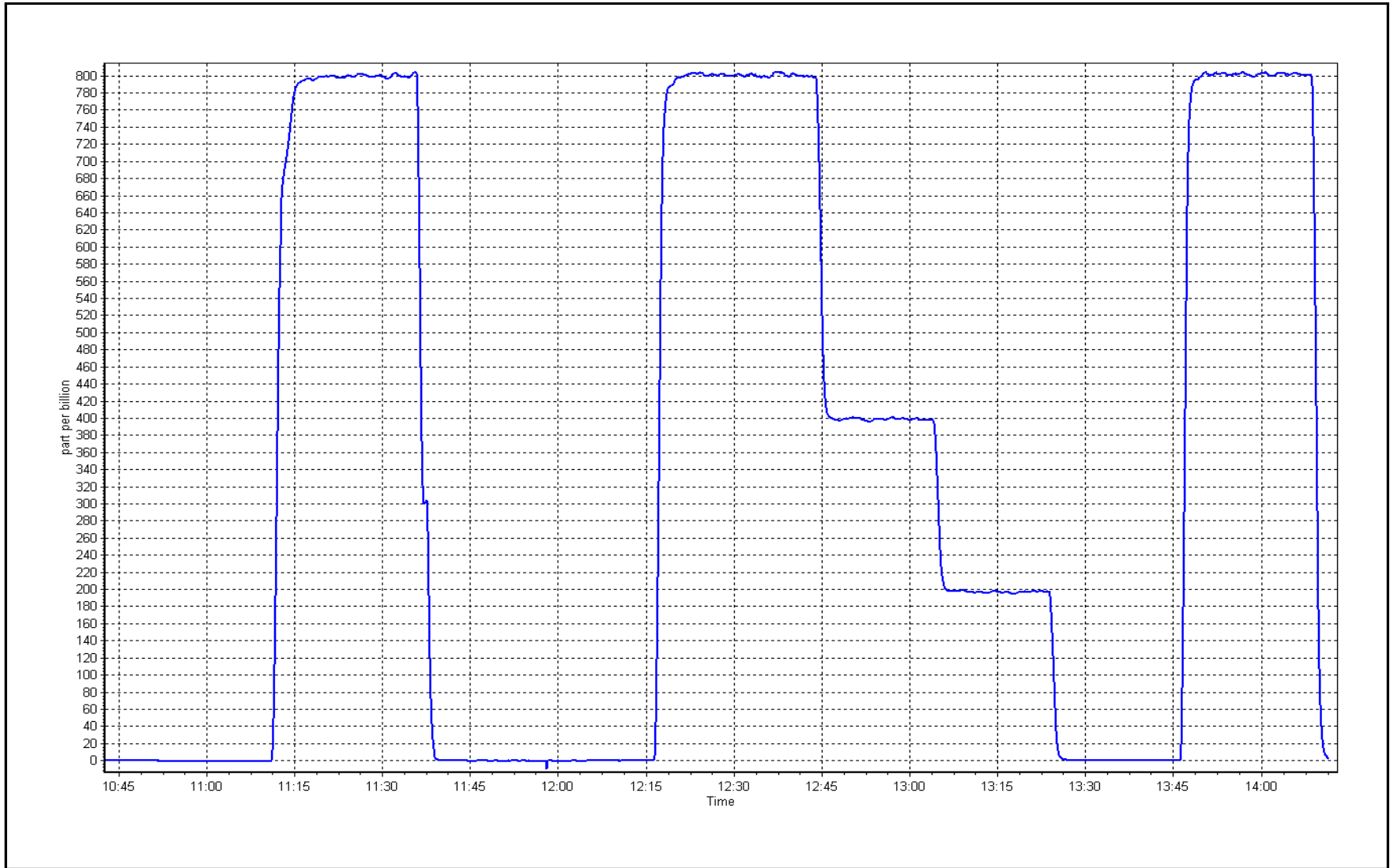
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999992	≥0.995
800.2	800.0	1.0002	Slope	1.000446	0.90 - 1.10
399.6	398.2	1.0035	Intercept	-1.080636	+/-30
199.8	197.7	1.0106			



SO2 Calibration Plot

Date: February 3, 2026

Location: Surmont 2





Wood Buffalo Environmental Association

H2S Calibration Report

Station Information

Station Name:	Surmont 2	Station number:	AMS 29
Calibration Date:	February 5, 2026	Last Cal Date:	January 7, 2026
Start time (MST):	11:32	End time (MST):	16:21
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	<u>4.750</u>	ppm	Cal Gas Exp Date:	August 28, 2027
Cal Gas Cylinder #:	<u>CC737848</u>			
Removed Cal Gas Conc:	<u>4.750</u>	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	<u>NA</u>		Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700		Serial Number:	5472
ZAG Make/Model:	Teledyne API T701		Serial Number:	135

Analyzer Information

Analyzer make:	Thermo 43iQ-TLE	Analyzer serial #:	1200326170
Converter make:	Global	Converter serial #:	2022-220
Analyzer Range:	0 - 100 ppb	Converter Temp:	325.0 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.997453	1.005311	Backgd or Offset:	1.04	1.02
Calibration intercept:	-0.080478	-0.080481	Coeff or Slope:	1.070	1.070

H2S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.2	----
As found High point	4916	84.2	80.0	81.0	0.985
As found Mid point	4958	42.1	40.0	40.5	0.983
As found Low point	4979	21.1	20.0	20.0	0.990
New cylinder response					
Baseline Corr As found:	81.2	Prev response:	79.70	*% change:	1.8%
Baseline Corr 2nd AF pt:	40.7	AF Slope:	1.015741	AF Intercept:	-0.220488
Baseline Corr 3rd AF pt:	20.2	AF Correlation:	0.999995	<i>* = > +/-5% change initiates investigation</i>	

H2S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4916	84.2	80.0	80.4	0.995
Mid point	4958	42.1	40.0	40.0	1.000
Low point	4979	21.1	20.0	20.0	1.000
As left zero	5000	0.0	0.0	0.1	----
As left span	4916	84.2	80.0	79.5	1.006
SO2 Scrubber Check	4919	81.3	813.0	0.0	----
Date of last scrubber change:				Ave Corr Factor	0.998
Date of last converter efficiency test:	December 5, 2024			108.1% efficiency	

Notes: Changed sample inlet filter after as founds. Ran SOx scrubber check after cal zero, passed. No adjustments made.

Calibration Performed By: Braiden Boutillier



Wood Buffalo Environmental Association

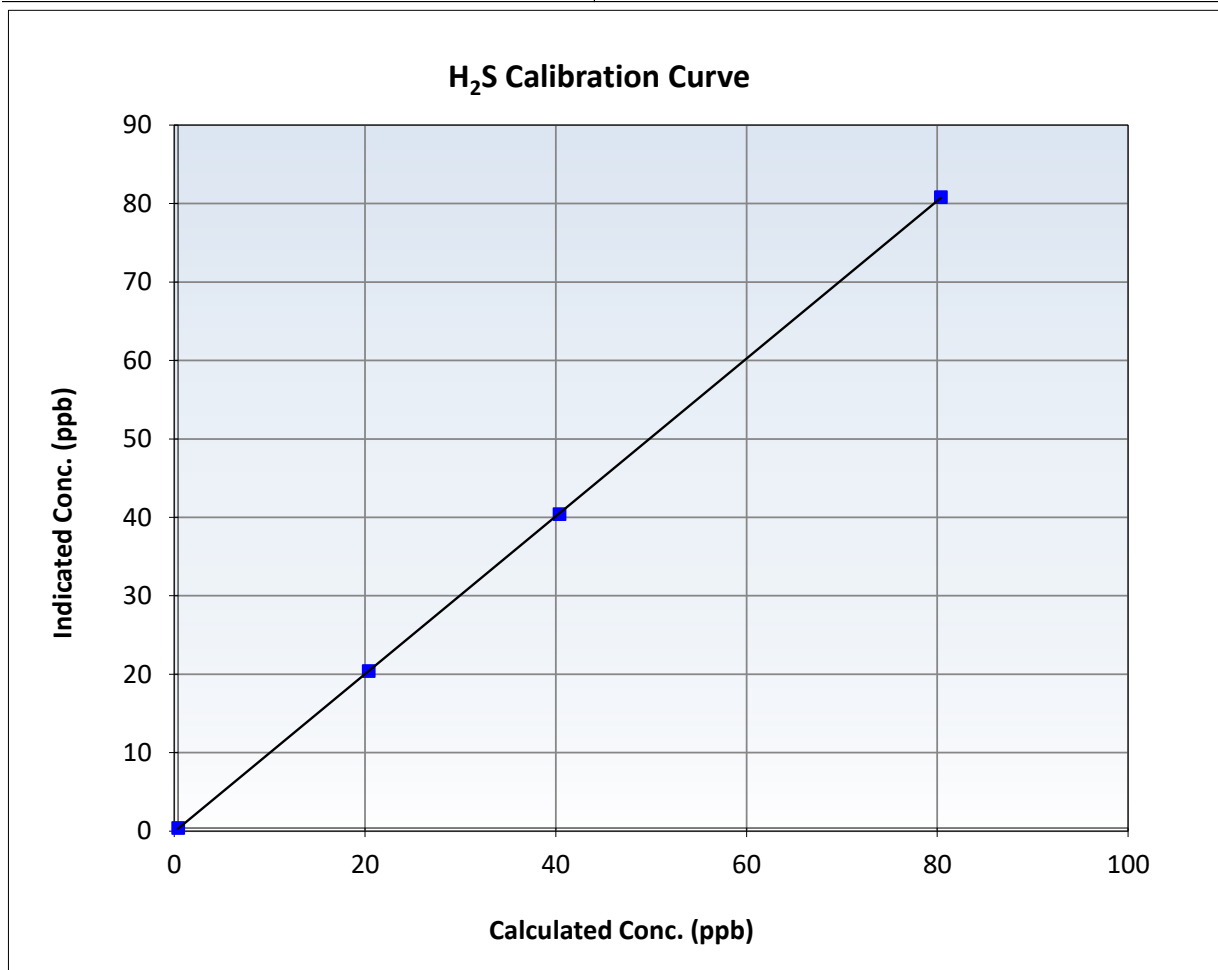
H2S Calibration Summary

Station Information

Calibration Date:	February 5, 2026	Previous Calibration:	January 7, 2026
Station Name:	Surmont 2	Station Number:	AMS 29
Start Time (MST):	11:32	End Time (MST):	16:21
Analyzer make:	Thermo 43iQ-TLE	Analyzer serial #:	1200326170

Calibration Data

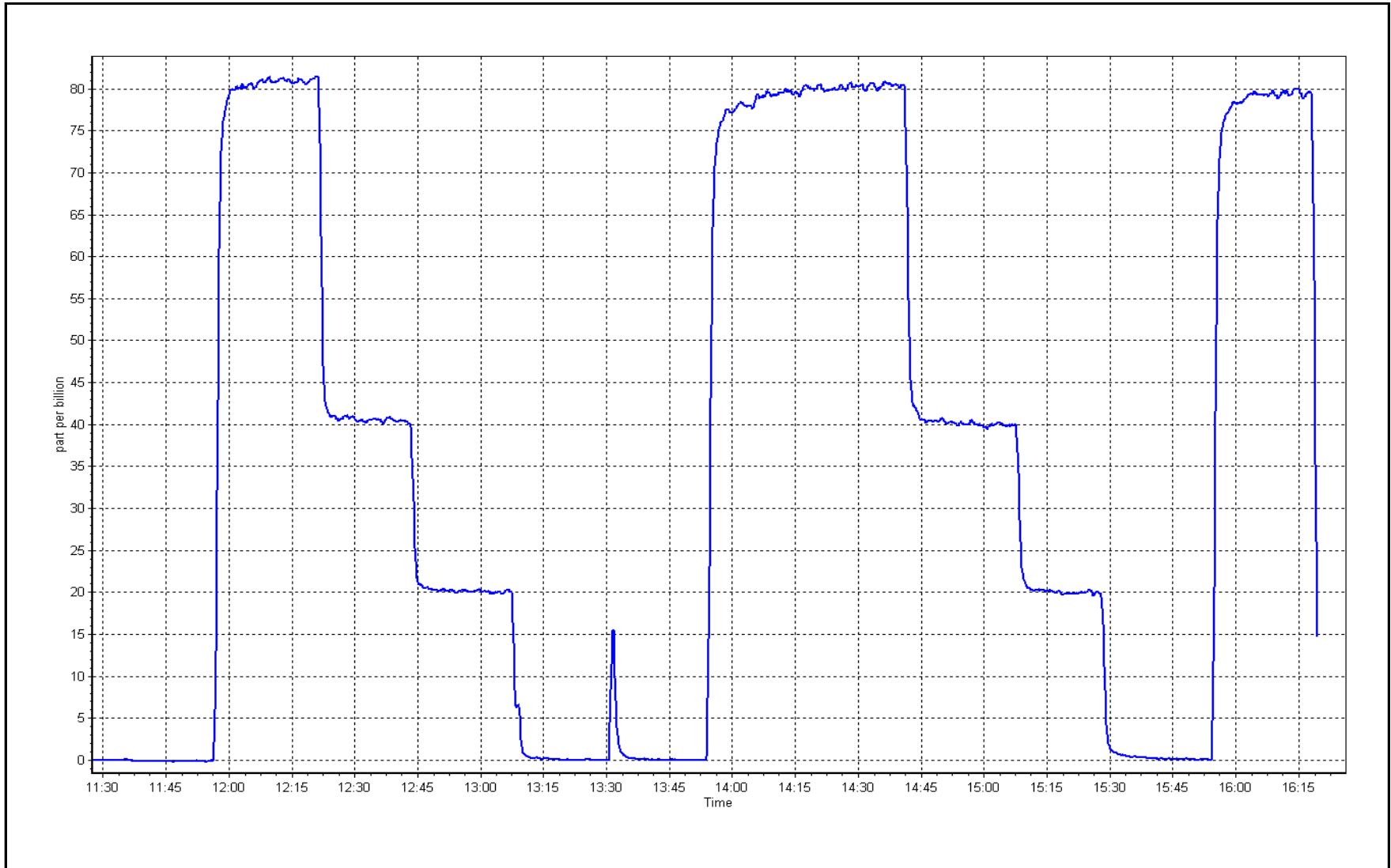
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999992	≥ 0.995
80.0	80.4	0.9949	Slope	1.005311	$0.90 - 1.10$
40.0	40.0	0.9999	Intercept	-0.080481	± 3
20.0	20.0	0.9999			



H2S Calibration Plot

Date: February 5, 2026

Location: Surmont 2





Wood Buffalo Environmental Association

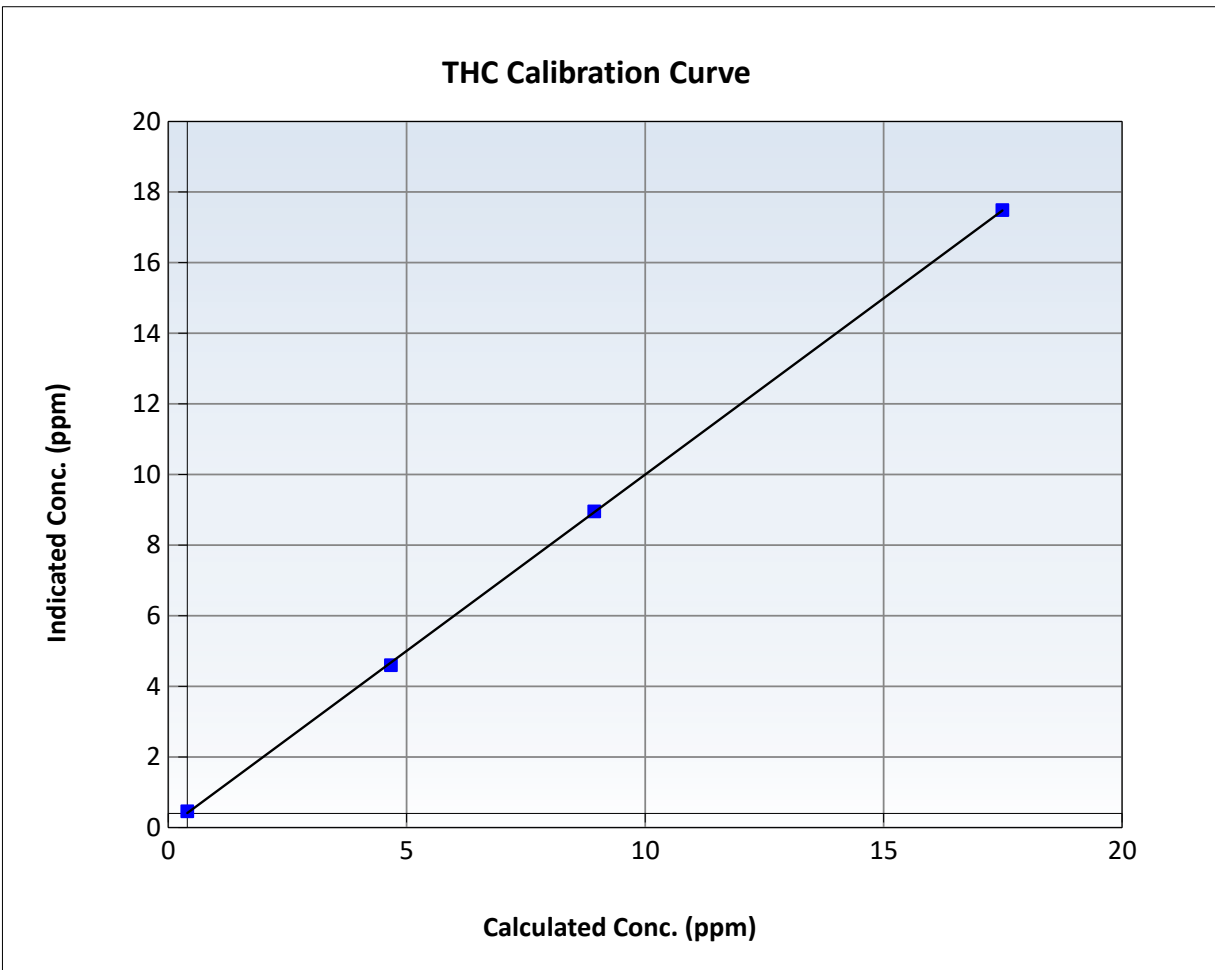
THC Calibration Summary

Station Information

Calibration Date:	February 3, 2026	Previous Calibration:	January 25, 2026
Station Name:	Surmont 2	Station Number:	AMS 29
Start Time (MST):	10:27	End Time (MST):	14:11
Analyzer make:	Thermo 51i-LT	Analyzer serial #:	1180540021

Calibration Data

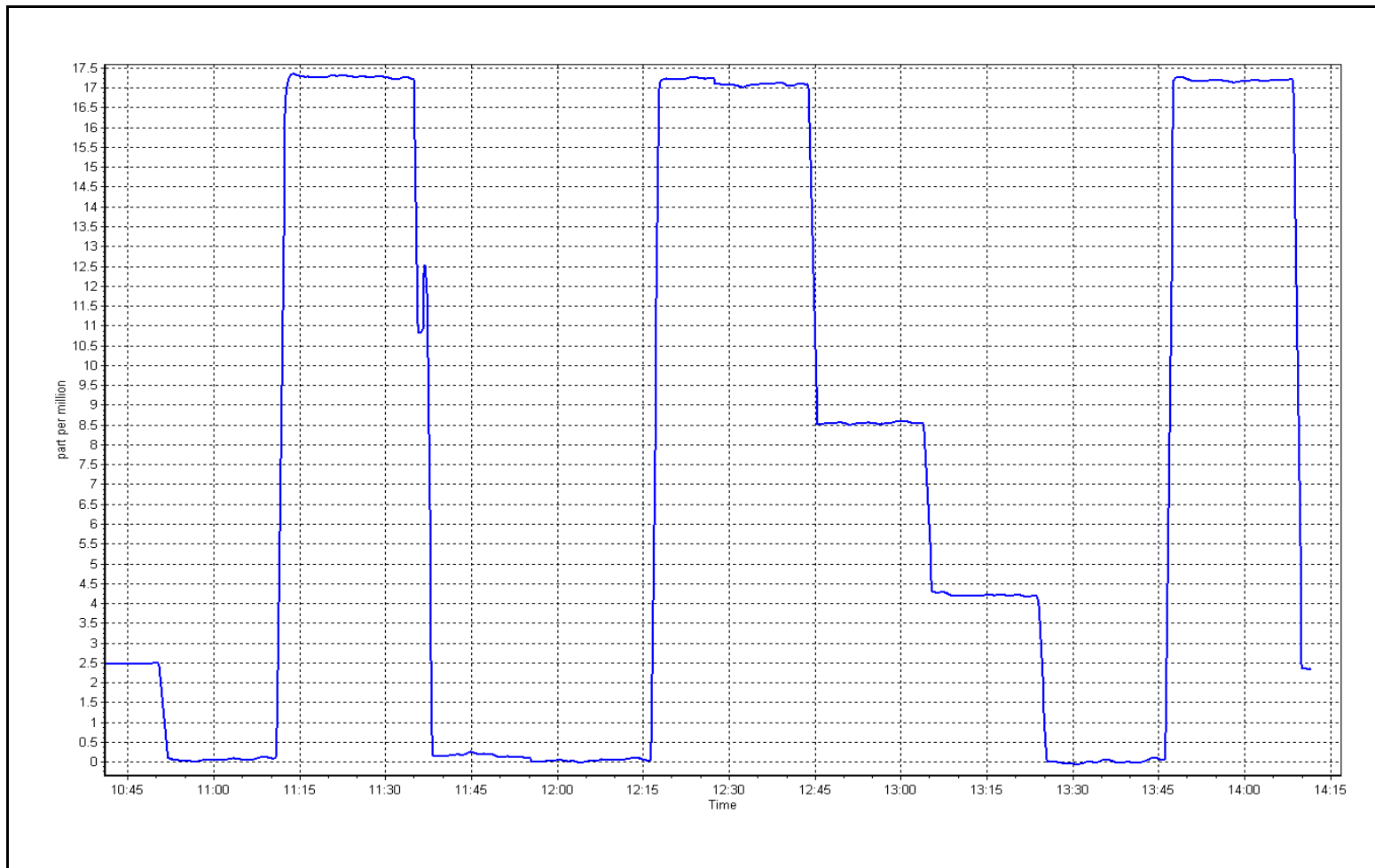
Calculated Concentration (ppm) (Cc)	Indicated Concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.00	0.06	----	Correlation Coefficient	0.999949	≥0.995
17.09	17.09	1.0001	Slope	0.998610	0.90 - 1.10
8.54	8.55	0.9983	Intercept	0.011251	+/-1.5
4.27	4.20	1.0163			



THC Calibration Plot

Date: February 3, 2026

Location: Surmont 2





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Surmont 2
 Station number: AMS 29
 Calibration Date: February 27, 2026
 Last Cal Date: January 28, 2026
 Start time (MST): 9:20
 End time (MST): 14:18
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: CC218007
 NOX Cal Gas Conc: 60.20 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 60.20 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701

Cal Gas Expiry Date: January 9, 2032
 NO Cal Gas Conc: 60.00 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 60.00 ppm
 NO gas Diff:
 Serial Number: 5472
 Serial Number: 135

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0	0.0	0.0	0.0	-0.2	-0.1	-0.1	----	----
AF High point	4933	66.7	803.1	800.4	2.7	824.0	824.0	0.0	0.9744	0.9713
AF Mid point										
AF Low point										
New cyl resp										

Previous Response NO_x = 804.1 ppb NO = 800.6 ppb * = > +/-5% change initiates investigation *Percent Change NO_x = 2.4%

Baseline Corr 1st pt NO_x = 824.2 ppb NO = 824.1 ppb As Found Statistics *Percent Change NO = 2.9%

Baseline Corr 2nd pt NO_x = NA ppb NO = NA ppb As found NO_x r²: Nx SI: Nx Int:

Baseline Corr 3rd pt NO_x = NA ppb NO = NA ppb As found NO r²: NO SI: NO Int:

As found NO₂ r²: NO₂ SI: NO₂ Int:

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1410661329

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	1.002173	0.998371
NO _x Cal Offset:	-0.789309	-0.428887
NO Cal Slope:	1.002756	0.999657
NO Cal Offset:	-2.048949	-1.789106
NO ₂ Cal Slope:	1.002890	1.002409
NO ₂ Cal Offset:	-0.752459	-1.186508

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.967	0.939	NO bkgnd or offset:	8.9	8.6
NOX coeff or slope:	0.991	0.996	NOX bkgnd or offset:	8.9	8.7
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	154.6	154.0

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOx concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOx concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOx Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0	0.0	0.0	0.0	0.0	0.1	-0.1	----	----
High point	4933	66.7	803.1	800.4	2.7	801.0	798.8	1.9	1.0026	1.0021
Mid point	4967	33.3	400.9	399.6	1.3	401.4	398.3	3.1	0.9988	1.0032
Low point	4983	16.7	201.1	200.4	0.7	198.7	195.6	3.1	1.0120	1.0246
As left zero	5000	0	0.0	0.0	0.0	0.0	0.1	0.0	----	----
As left span	4933	66.7	803.1	428.3	374.8	793.5	428.3	365.2	1.0121	1.0000
Average Correction Factor									1.0045	1.0100

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	-0.1	----	----
High GPT point	794.8	427.5	370.0	370.1	0.9996	100.0%
Mid GPT point	794.8	620.3	177.2	176.2	1.0055	99.5%
Low GPT point	794.8	704.7	92.8	90.5	1.0251	97.6%
Average Correction Factor					1.0101	99.0%

Notes: Changed sample inlet filter after as founds. Adjusted span.

Calibration Performed By: Braiden Boutilier



Wood Buffalo Environmental Association

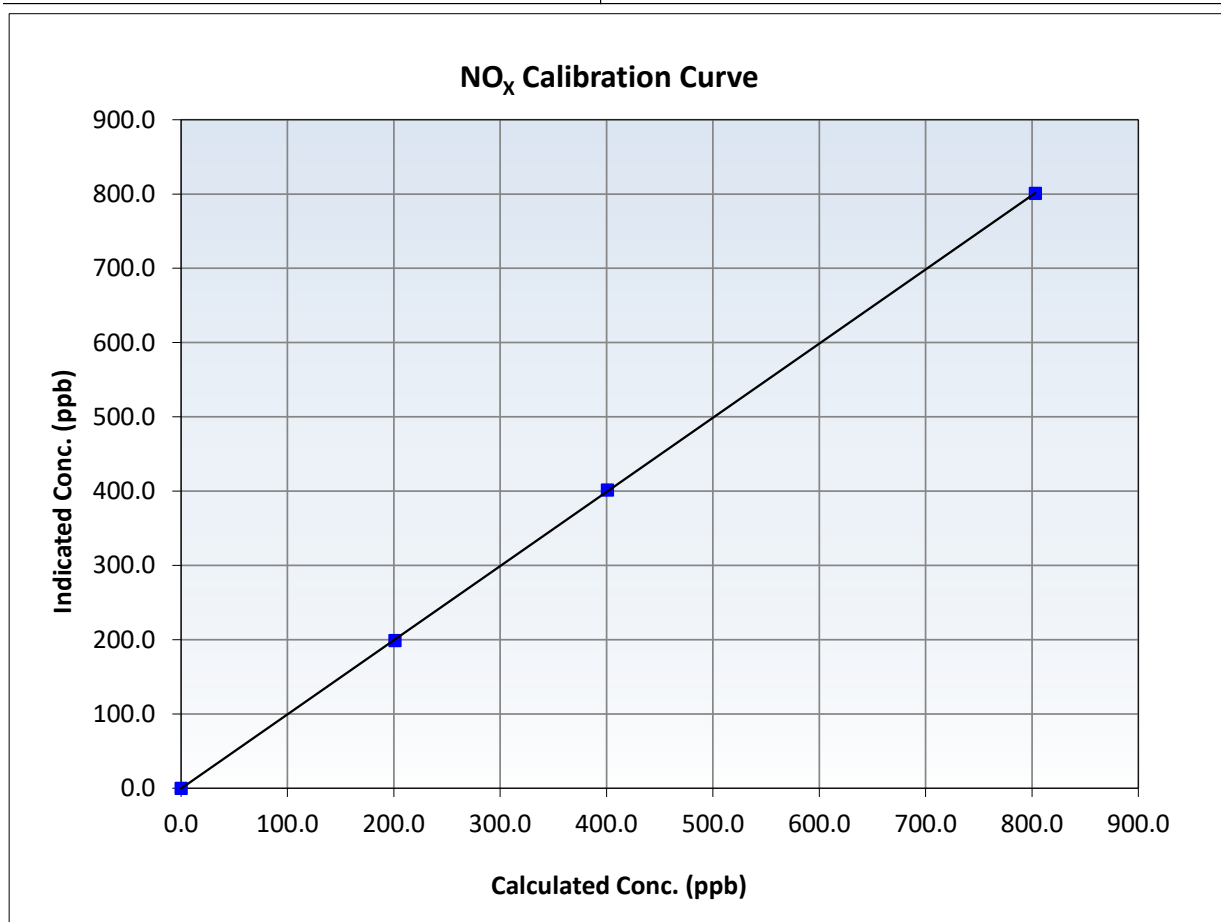
NO_x Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	January 28, 2026
Station Name:	Surmont 2	Station Number:	AMS 29
Start Time (MST):	9:20	End Time (MST):	14:18
Analyzer make:	Thermo 42i	Analyzer serial #:	1410661329

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999985	≥0.995
803.1	801.0	1.0026	Slope	0.998371	0.90 - 1.10
400.9	401.4	0.9988	Intercept	-0.428887	+/-20
201.1	198.7	1.0120			





Wood Buffalo Environmental Association

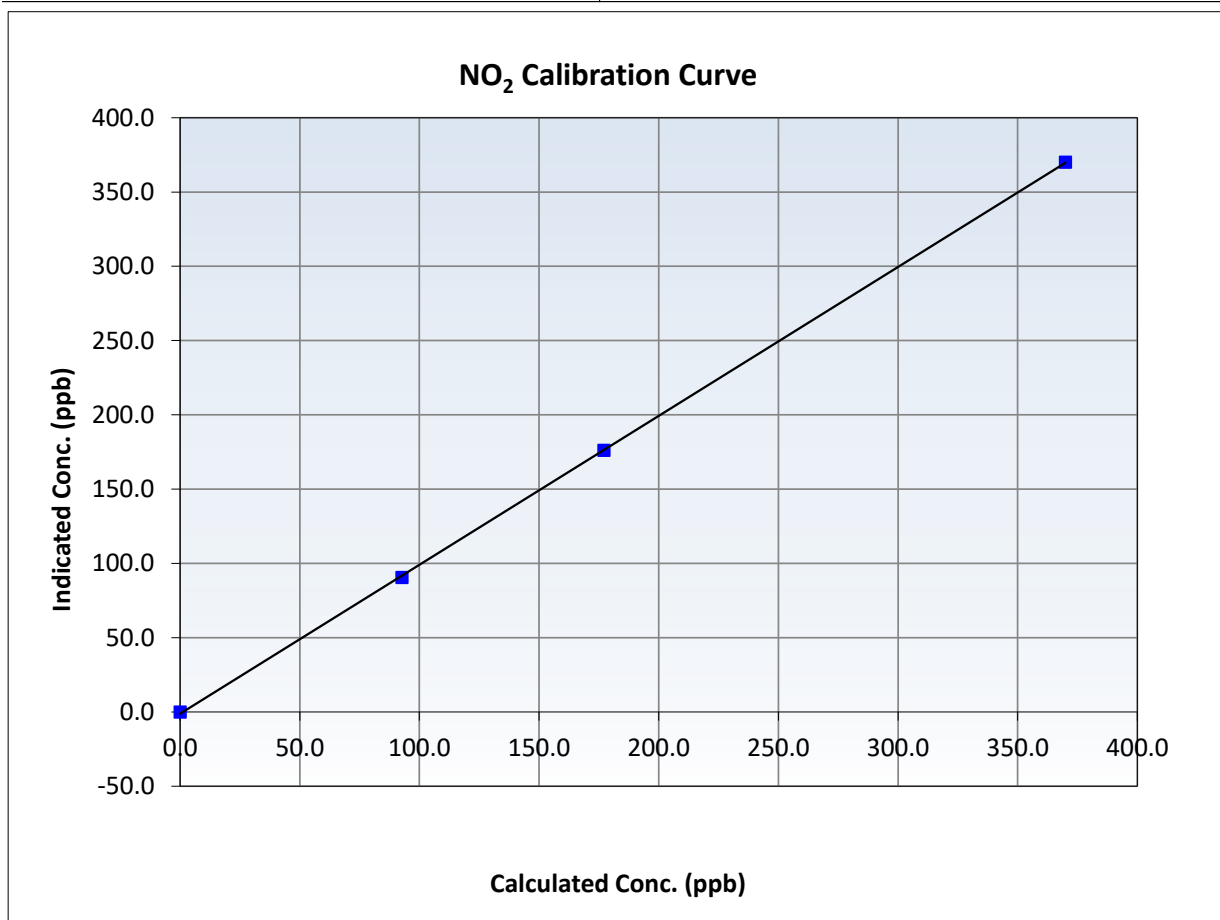
NO₂ Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	January 28, 2026
Station Name:	Surmont 2	Station Number:	AMS 29
Start Time (MST):	9:20	End Time (MST):	14:18
Analyzer make:	Thermo 42i	Analyzer serial #:	1410661329

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.1	----	Correlation Coefficient	0.999958	<i>≥0.995</i>
370.0	370.1	0.9996	Slope	1.002409	<i>0.90 - 1.10</i>
177.2	176.2	1.0055	Intercept	-1.186508	<i>+/-20</i>
92.8	90.5	1.0251			





Wood Buffalo Environmental Association

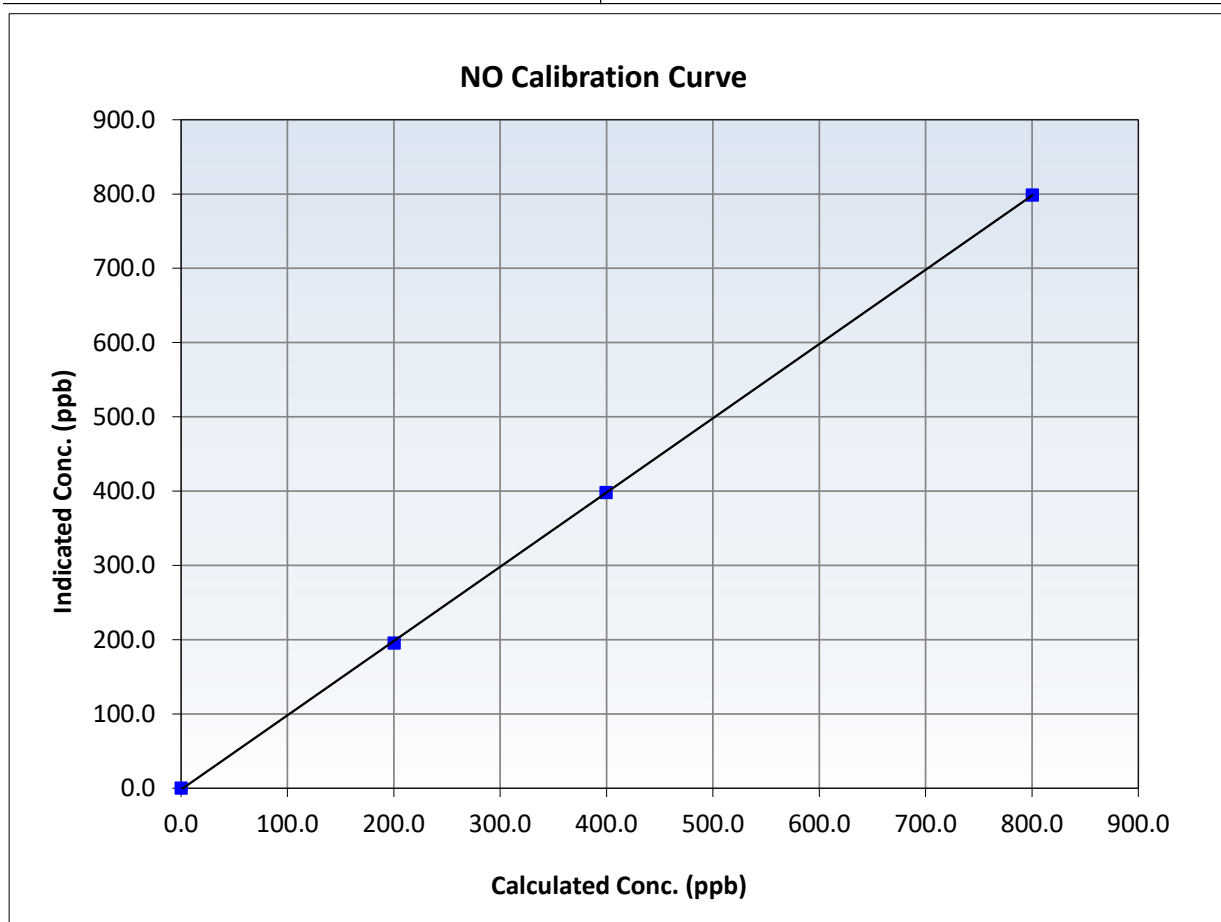
NO Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	January 28, 2026
Station Name:	Surmont 2	Station Number:	AMS 29
Start Time (MST):	9:20	End Time (MST):	14:18
Analyzer make:	Thermo 42i	Analyzer serial #:	1410661329

Calibration Data

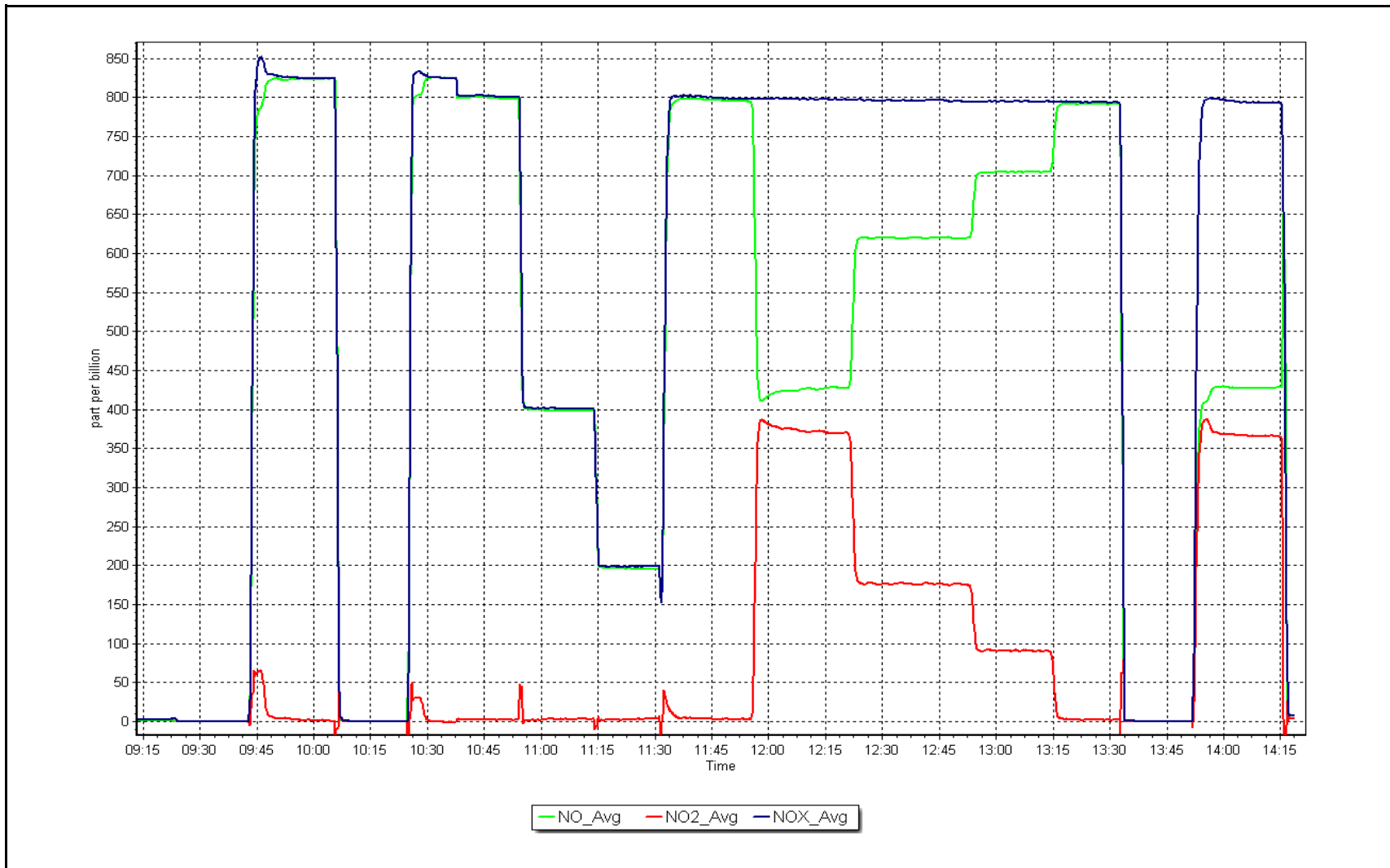
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999963	<i>≥0.995</i>
800.4	798.8	1.0021	Slope	0.999657	<i>0.90 - 1.10</i>
399.6	398.3	1.0032	Intercept	-1.789106	<i>+/-20</i>
200.4	195.6	1.0246			



NO_x Calibration Plot

Date: February 27, 2026

Location: Surmont 2





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Surmont 2 Station number: AMS 29
 Calibration Date: February 27, 2026 Last Cal Date: January 28, 2026
 Start time (MST): 11:21 End time (MST): 13:44

Analyzer Make: API T640 S/N: 2236
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388748
 Temp/RH standard: Alicat FP-25BT S/N: 388748

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	-23.9	-25.25	-23.9	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	719.0	717.61	719.0	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	4.98	5.068	5.00	<input checked="" type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	43	----	43	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	1.7	PM w/ HEPA: _____	0.0	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: 10.9 Expiry Date: July 16, 2026
 Lot No.: 100128-050-050

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test	10.8	10.6	11.0	<input checked="" type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: February 27, 2026
 Date Disposable Filter Changed: February 27, 2026

Post- maintenance Zero Verification: PM w/ HEPA: _____ 0.0 <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: April 14, 2025
 Date RH/T Sensor Cleaned: July 15, 2025

Notes: Verified temperature pressure and flow. Completed quarterly maintenance. Adjusted flow and PMT peak.

Calibration by: Braiden Boutilier



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS30 ELLS RIVER FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Ells River	Station number: AMS 30
Calibration Date:	February 10, 2026	Last Cal Date: January 12, 2026
Start time (MST):	10:40	End time (MST): 14:27
Reason:	Routine	

Calibration Standards

Cal Gas Concentration:	48.75	ppm	Cal Gas Exp Date: March 10, 2031
Cal Gas Cylinder #:	CC350110		
Removed Cal Gas Conc:	48.75	ppm	Rem Gas Exp Date: NA
Removed Gas Cyl #:	NA		Diff between cyl:
Calibrator Model:	API T700		Serial Number: 5707
Zero Air Gen Model:	API T701H		Serial Number: 358

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number: 1008841397
Analyzer Range:	0 - 1000 ppb	

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.000615	1.002587	Backgd or Offset:	10.8	10.8
Calibration intercept:	-0.516137	-1.256407	Coeff or Slope:	1.013	1.013

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.2	----
As found High point	4918	82.1	800.5	800.4	1.000
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	800.6	Previous response	800.4	*% change	0.0%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		<i>* = > +/-5% change initiates investigation</i>	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.2	----
High point	4918	82.1	800.5	802.0	0.998
Mid point	4959	41.0	399.8	398.4	1.003
Low point	4979	20.5	199.9	198.5	1.007
As left zero	5000	0.0	0.0	-0.2	----
As left span	4918	82.1	800.5	804.5	0.995
Average Correction Factor:					1.003

Notes: Sample inlet filter was changed after as founds. No adjustment made.

Calibration Performed By: Param Kaur



Wood Buffalo Environmental Association

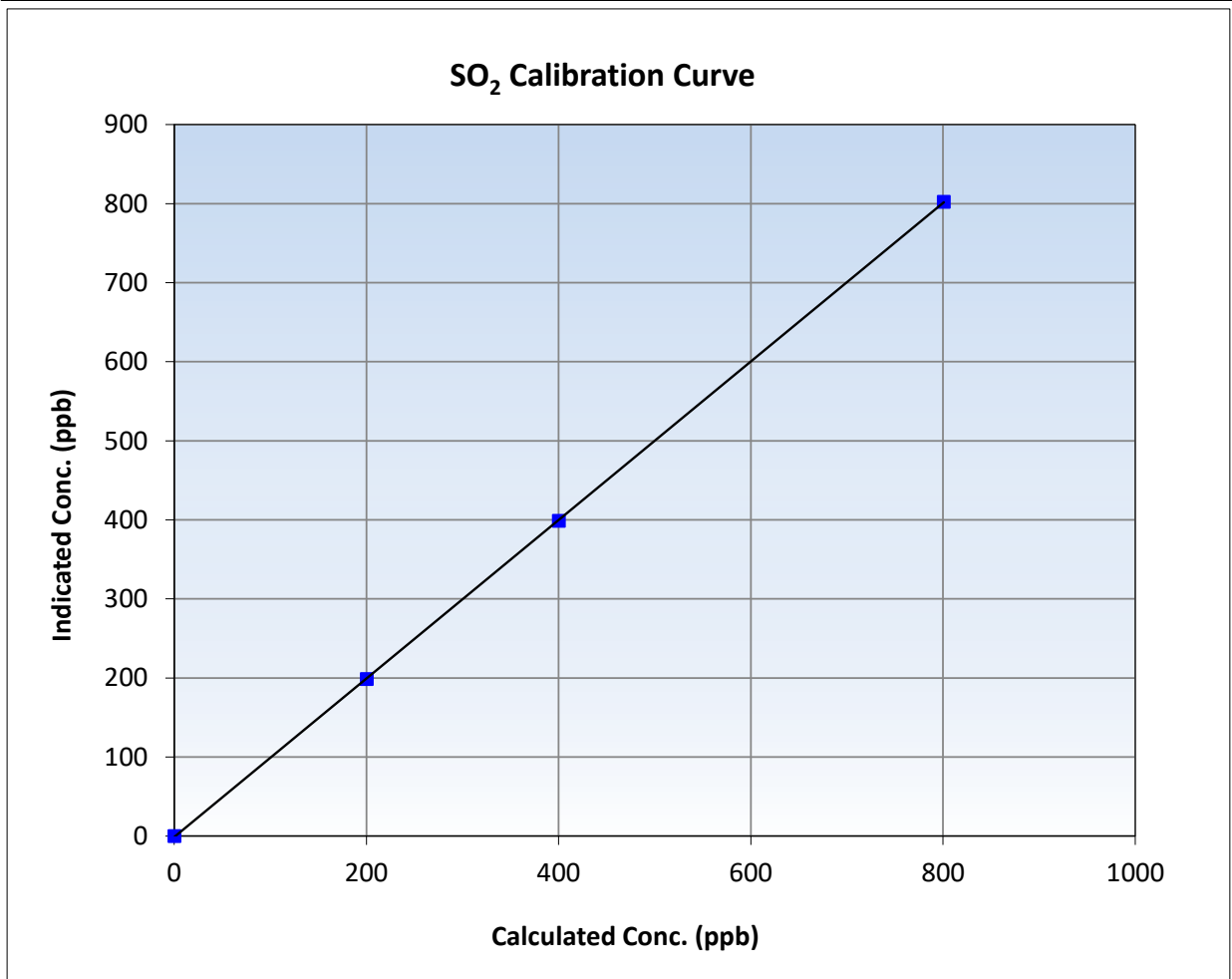
SO₂ Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 12, 2026
Station Name:	Ells River	Station Number:	AMS 30
Start Time (MST):	10:40	End Time (MST):	14:27
Analyzer make:	Thermo 43i	Analyzer serial #:	1008841397

Calibration Data

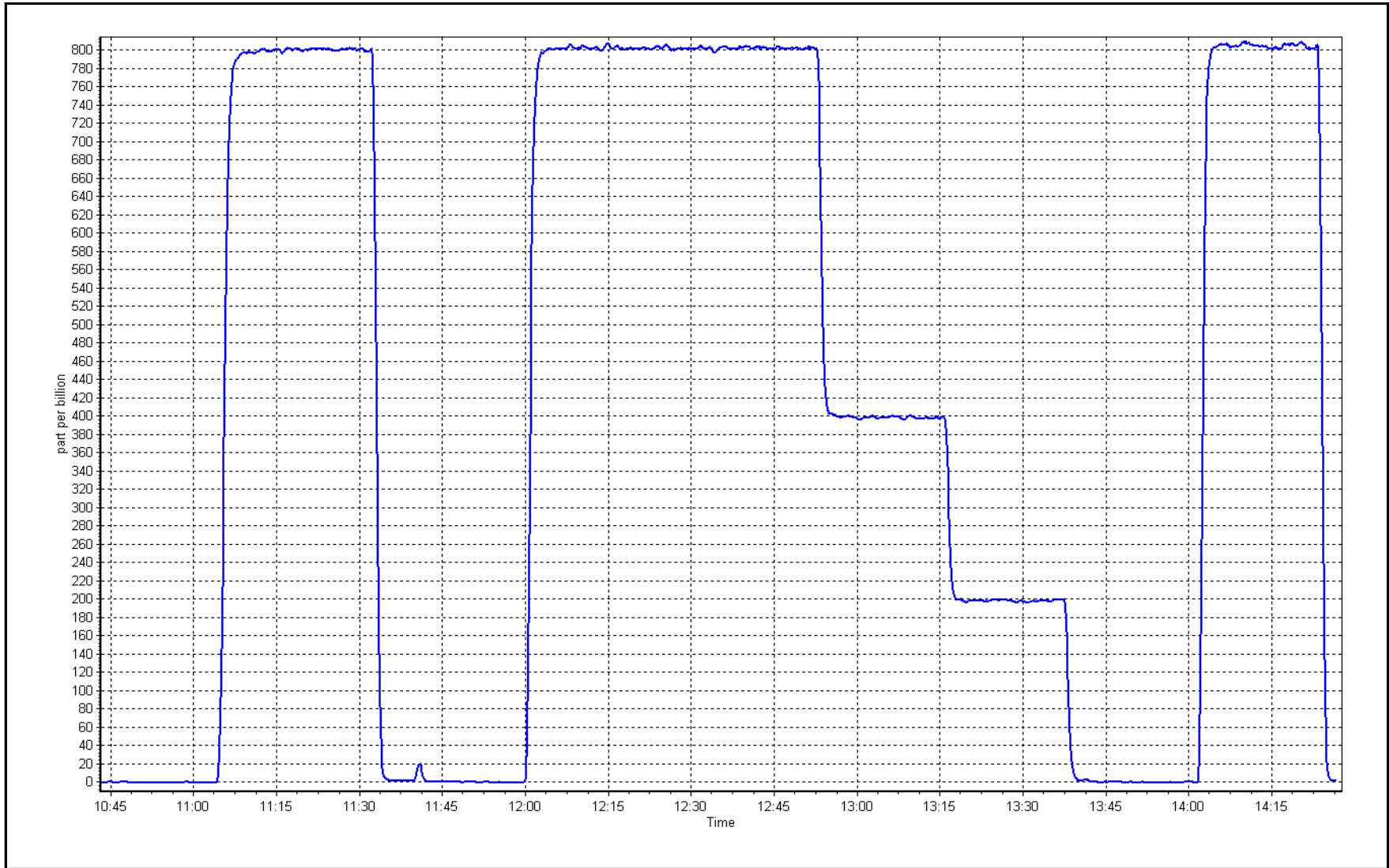
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	-0.2	----	Correlation Coefficient	0.999991	≥0.995
800.5	802.0	0.9981	Slope	1.002587	0.90 - 1.10
399.8	398.4	1.0034	Intercept	-1.256407	+/-30
199.9	198.5	1.0070			



SO2 Calibration Plot

Date: February 10, 2026

Location: Ells River





Wood Buffalo Environmental Association

TRS Calibration Report

Station Information

Station Name: Ells River	Station number: AMS 30
Calibration Date: February 12, 2026	Last Cal Date: January 19, 2026
Start time (MST): 10:28	End time (MST): 14:29
Reason: Routine	

Calibration Standards

Cal Gas Concentration: 4.99 ppm	Cal Gas Exp Date: November 15, 2026
Cal Gas Cylinder #: CC505806	
Removed Cal Gas Conc: 4.99 ppm	Rem Gas Exp Date: NA
Removed Gas Cyl #: NA	Diff between cyl:
Calibrator Make/Model: API T700	Serial Number: 5707
ZAG Make/Model: API 701H	Serial Number: 358

Analyzer Information

Analyzer make: Thermo 43i-LTE	Analyzer serial #: 1170050152
Converter make: CDN- 101	Converter serial #: 632
Analyzer Range: 0 - 100 ppb	Converter Temp: 800 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.001620	1.005189	Backgd or Offset:	3.99	4.02
Calibration intercept:	-0.060554	-0.160470	Coeff or Slope:	1.286	1.286

TRS As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.1	----
As found High point	4920	80.2	80.0	80.5	0.993
As found Mid point	4960	40.1	40.0	40.2	0.993
As found Low point	4980	20.0	20.0	19.8	1.003
New cylinder response					
Baseline Corr As found:	80.6	Prev response:	80.11	*% change:	0.6%
Baseline Corr 2nd AF pt:	40.3	AF Slope:	1.007902	AF Intercept:	-0.180434
Baseline Corr 3rd AF pt:	19.9	AF Correlation:	0.999992	<i>* = > +/-5% change initiates investigation</i>	

TRS Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	4920	80.2	80.0	80.3	0.997
Mid point	4960	40.1	40.0	40.1	0.998
Low point	4980	20.0	20.0	19.8	1.008
As left zero	5000	0.0	0.0	-0.1	----
As left span	4920	80.2	80.0	80.8	0.991
SO2 Scrubber Check	4918	82.0	820.0	0.1	----
Date of last scrubber change:	16-Dec-25			Ave Corr Factor	1.001
Date of last converter efficiency test:					

Notes: Sample inlet filter was changed after multipoint as founds. SO2 scrubber check done after calibrator zero and passed. No adjustments made.

Calibration Performed By: Param Kaur



Wood Buffalo Environmental Association

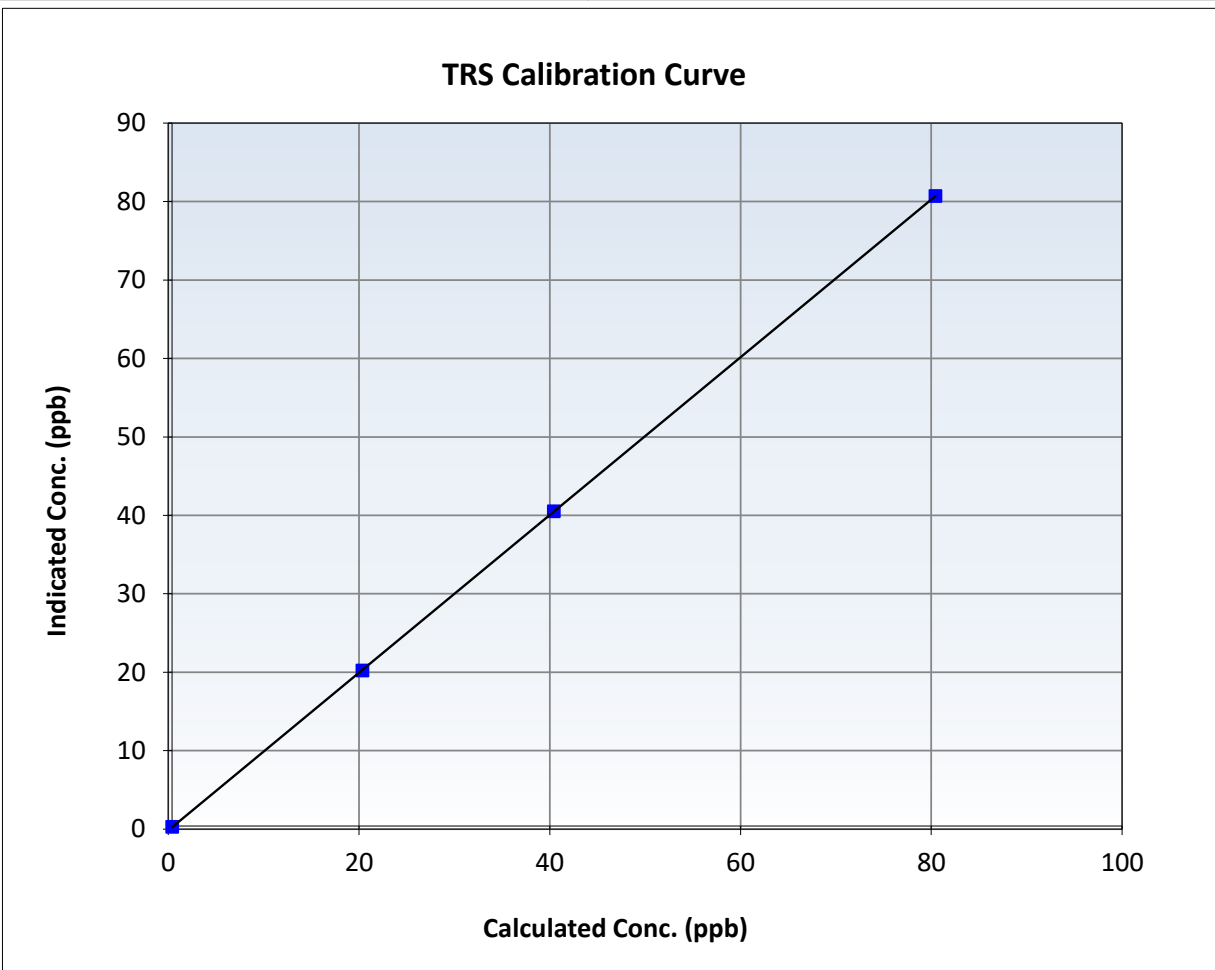
TRS Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 19, 2026
Station Name:	Ells River	Station Number:	AMS 30
Start Time (MST):	10:28	End Time (MST):	14:29
Analyzer make:	Thermo 43i-LTE	Analyzer serial #:	1170050152

Calibration Data

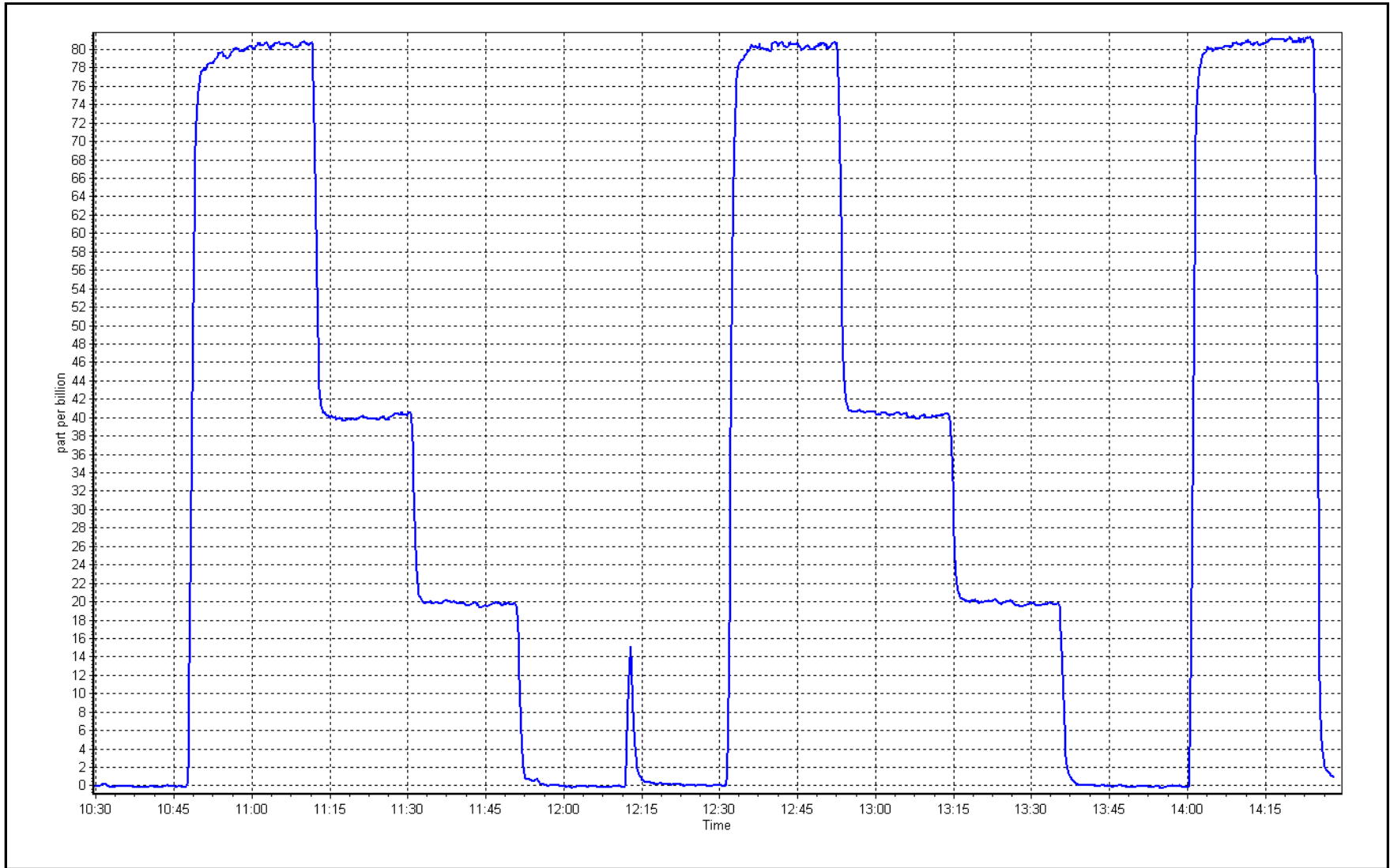
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.1	----	Correlation Coefficient	0.999996	≥ 0.995
80.0	80.3	0.9967	Slope	1.005189	$0.90 - 1.10$
40.0	40.1	0.9980	Intercept	-0.160470	± 3
20.0	19.8	1.0081			



TRS Calibration Plot

Date: February 12, 2026

Location: Ells River





Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

Station Information

Station Name:	Ells River	Station number:	AMS 30
Calibration Date:	February 10, 2026	Last Cal Date:	January 23, 2026
Start time (MST):	10:40	End time (MST):	14:27
Reason:	Routine		

Calibration Standards

Gas Cert Reference:	CC350110	Cal Gas Expiry Date:	Monday, March 10, 2031
CH ₄ Cal Gas Conc.	496.6 ppm	CH ₄ Equiv Conc.	1066.4 ppm
C ₃ H ₈ Cal Gas Conc.	207.2 ppm		
Removed Gas Cert:	NA	Removed Gas Expiry:	NA
Removed CH ₄ Conc.	496.6 ppm	CH ₄ Equiv Conc.	1066.4 ppm
Removed C ₃ H ₈ Conc.	207.2 ppm	Diff between cyl (THC):	
Diff between cyl (CH ₄):		Diff between cyl (NM):	
Calibrator Model:	API T700	Serial Number:	3061
Zero Air Gen model:	API T701H	Serial Number:	358

Analyzer Information

Analyzer make: Thermo 55i	Analyzer serial #: 1152430011
THC Range: 0 - 20 ppm	NMHC/CH ₄ Range: 0 - 10 ppm

	<u>Start</u>	<u>Finish</u>	<u>Start</u>	<u>Finish</u>
CH ₄ SP Ratio:	3.15E-04	3.22E-04	NMHC SP Ratio: 5.75E-05	5.90E-05
CH ₄ Retention time:	17.8	18.0	NMHC Peak Area: 162751	158686
Zero Chromatogram:	ON	ON	Flat Baseline: OFF	OFF

THC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	82.1	17.51	17.12	1.023
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	17.12	Prev response	17.49	*% change	-2.2%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

THC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	82.1	17.51	17.50	1.000
Mid point	4959	41.0	8.74	8.73	1.002
Low point	4979	20.5	4.37	4.34	1.007
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	82.1	17.51	17.52	0.999
Average Correction Factor					1.003

Notes: Sample inlet filter was changed after as founds. Span adjusted.



Wood Buffalo Environmental Association

THC / CH₄ / NMHC Calibration Report

NMHC As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	82.1	9.36	9.14	1.024
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	9.14	Prev response	9.36	*% change	-2.8%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

NMHC Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	82.1	9.36	9.35	1.000
Mid point	4959	41.0	4.67	4.68	0.999
Low point	4979	20.5	2.34	2.34	1.000
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	82.1	9.36	9.37	0.999
Average Correction Factor					1.000

CH₄ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFZero))
As found zero	5000	0.0	0.00	0.00	----
As found High point	4918	82.1	8.15	7.98	1.022
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr AF:	7.98	Prev response	8.13	*% change	-2.0%
Baseline Corr 2nd AF:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

CH₄ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)
Calibrator zero	5000	0.0	0.00	0.00	----
High point	4918	82.1	8.15	8.15	1.000
Mid point	4959	41.0	4.07	4.05	1.005
Low point	4979	20.5	2.04	2.01	1.015
As left zero	5000	0.0	0.00	0.00	----
As left span	4918	82.1	8.15	8.15	1.001
Average Correction Factor					1.007

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
THC Cal Slope:	0.999727	1.000119
THC Cal Offset:	-0.011186	-0.014184
CH ₄ Cal Slope:	0.999323	1.000669
CH ₄ Cal Offset:	-0.014936	-0.015734
NMHC Cal Slope:	1.000263	0.999859
NMHC Cal Offset:	0.003750	0.001150

Calibration Performed By: Param Kaur



Wood Buffalo Environmental Association

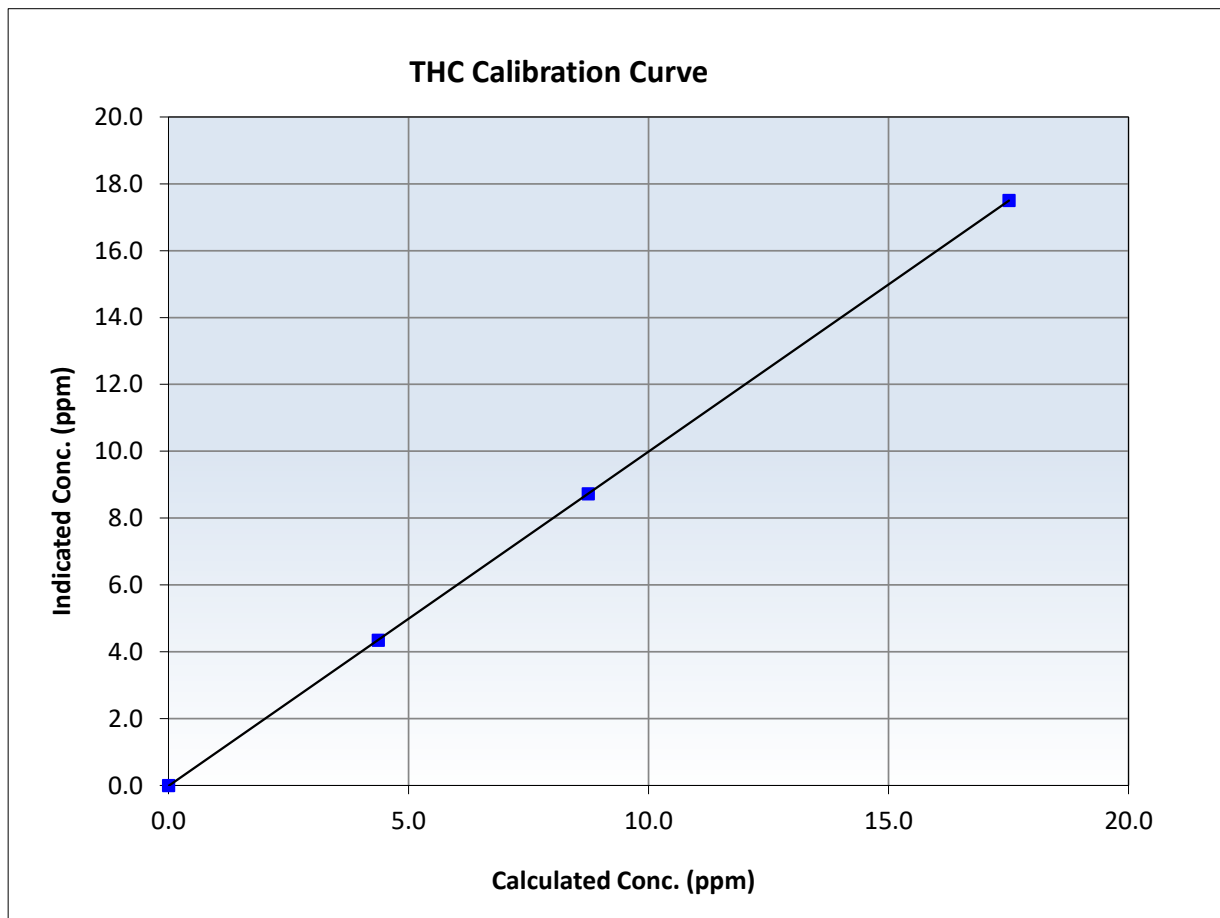
THC Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 23, 2026
Station Name:	Ells River	Station Number:	AMS 30
Start Time (MST):	10:40	End Time (MST):	14:27
Analyzer make:	Thermo 55i	Analyzer serial #:	1152430011

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999997	<i>≥0.995</i>
17.51	17.50	1.0003	Slope	1.000119	<i>0.90 - 1.10</i>
8.74	8.73	1.0020	Intercept	-0.014184	<i>+/-0.5</i>
4.37	4.34	1.0068			





Wood Buffalo Environmental Association

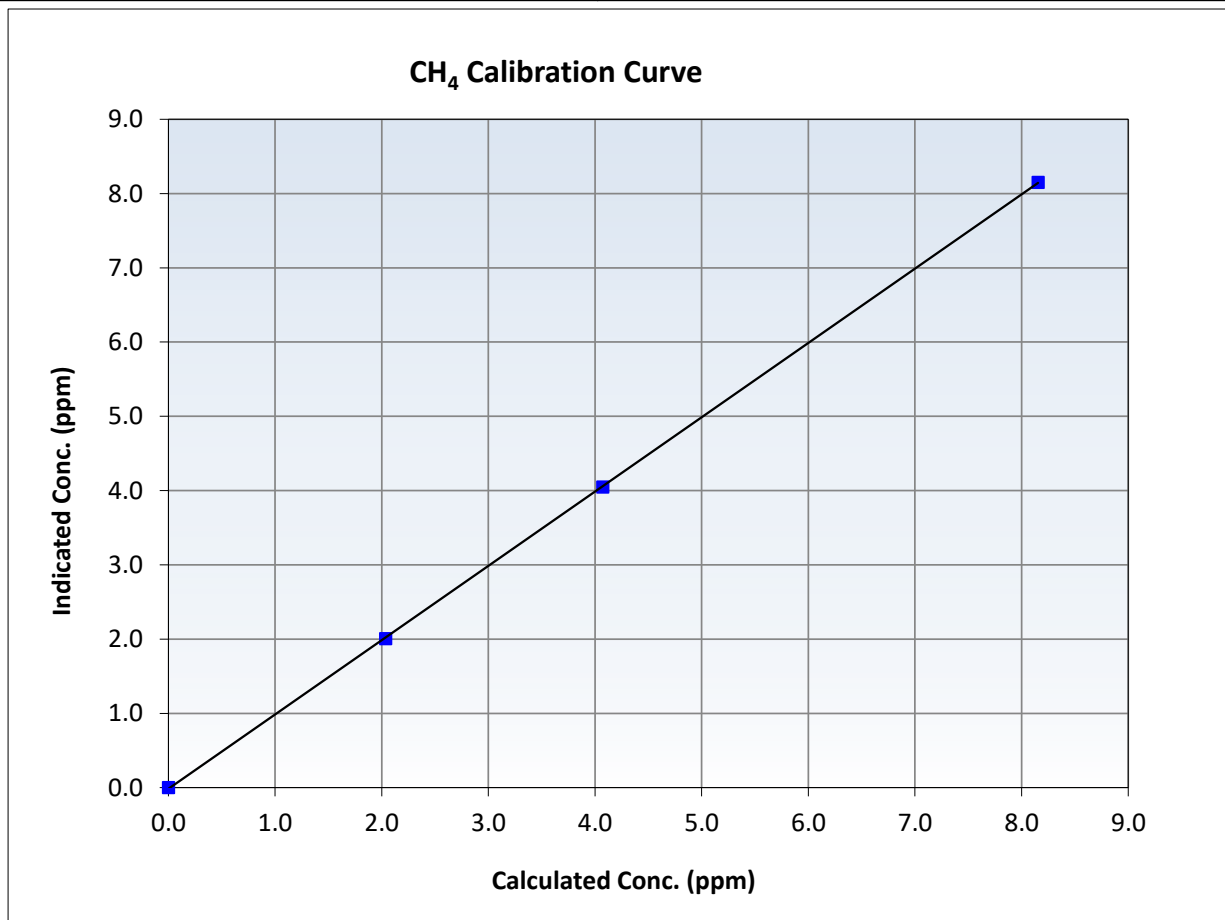
CH₄ Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 23, 2026
Station Name:	Ells River	Station Number:	AMS 30
Start Time (MST):	10:40	End Time (MST):	14:27
Analyzer make:	Thermo 55i	Analyzer serial #:	1152430011

Calibration Data

Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	0.999983 ≥0.995
8.15	8.15	1.0002	Slope	1.000669 0.90 - 1.10
4.07	4.05	1.0055	Intercept	-0.015734 +/-0.5
2.04	2.01	1.0146		





Wood Buffalo Environmental Association

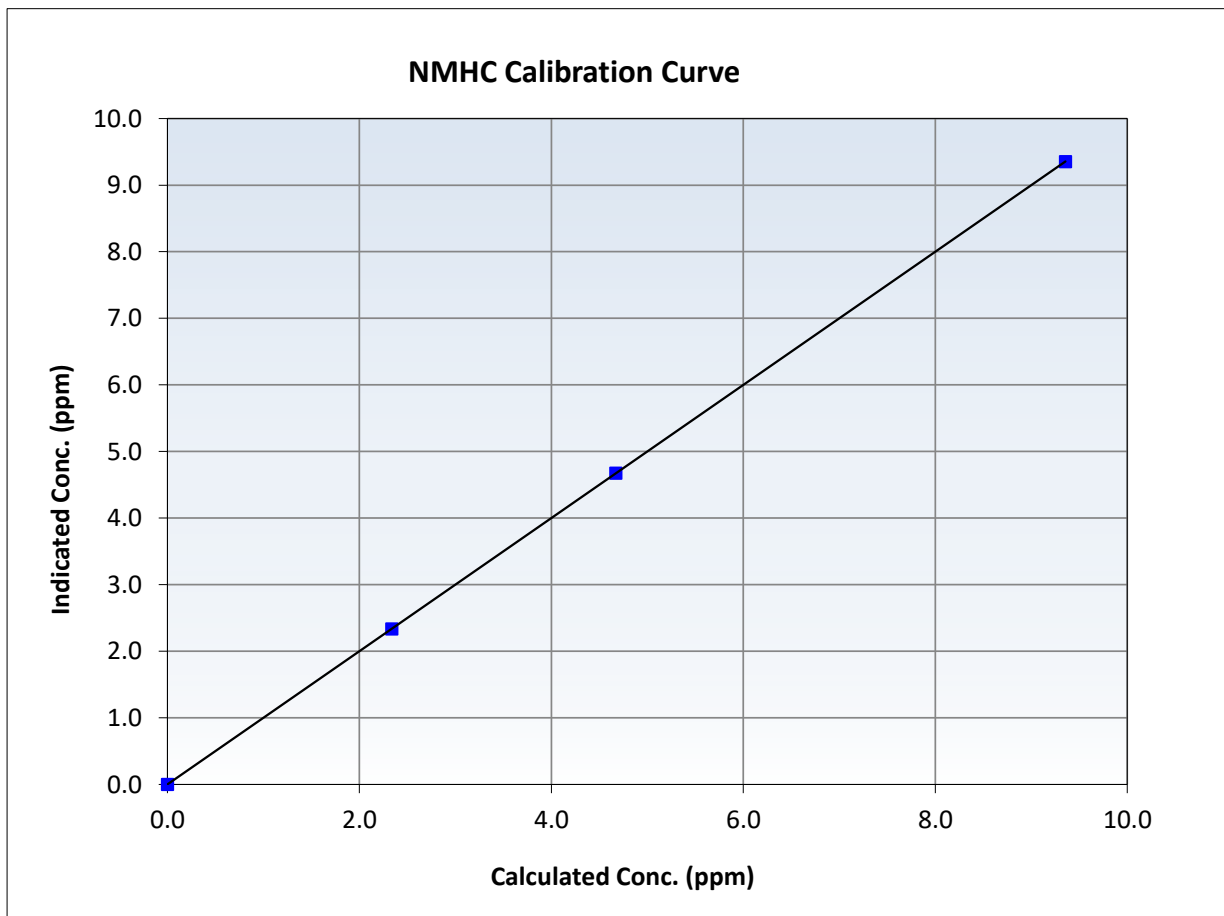
NMHC Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 23, 2026
Station Name:	Ells River	Station Number:	AMS 30
Start Time (MST):	10:40	End Time (MST):	14:27
Analyzer make:	Thermo 55i	Analyzer serial #:	1152430011

Calibration Data

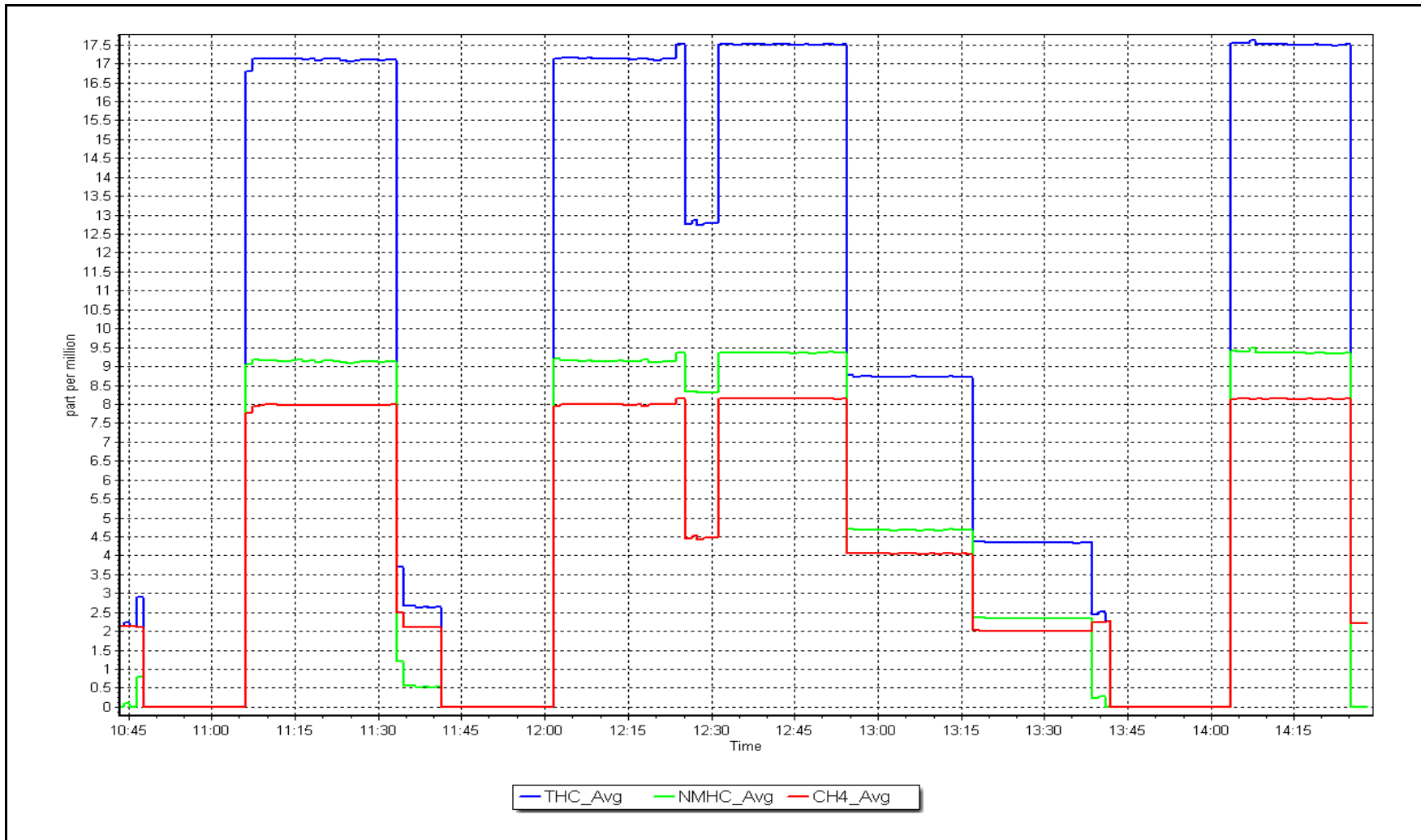
Calculated concentration (ppm) (Cc)	Indicated concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.00	0.00	----	Correlation Coefficient	1.000000	<i>≥0.995</i>
9.36	9.35	1.0002	Slope	0.999859	<i>0.90 - 1.10</i>
4.67	4.68	0.9990	Intercept	0.001150	<i>+/-0.5</i>
2.34	2.34	1.0002			



NMHC Calibration Plot

Date: February 10, 2026

Location: Ells River





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Ells River
 Station number: AMS 30
 Calibration Date: February 11, 2026
 Last Cal Date: January 20, 2026
 Start time (MST): 10:11
 End time (MST): 15:14
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0027487
 NOX Cal Gas Conc: 59.30 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 59.30 ppm
 NOX gas Diff:
 Calibrator Model: API T700
 ZAG make/model: API T701H
 Cal Gas Expiry Date: January 9, 2032
 NO Cal Gas Conc: 59.10 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 59.10 ppm
 NO gas Diff:
 Serial Number: 5707
 Serial Number: 358

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.2	0.0	-0.2	----	----
AF High point	4932	67.7	803.0	800.3	2.7	792.0	784.6	7.3	1.0136	1.0200
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 800.9 ppb		NO = 796.7 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -1.1%	
Baseline Corr 1st pt	NO _x = 792.2 ppb		NO = 784.6 ppb			<u>As Found Statistics</u>		*Percent Change	NO = -1.5%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 710321429

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.997237	0.998007
NO _x Cal Offset:	0.121922	0.101748
NO Cal Slope:	0.997016	0.997831
NO Cal Offset:	-1.220053	-1.280224
NO ₂ Cal Slope:	0.998819	0.999671
NO ₂ Cal Offset:	0.134800	0.109176

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.550	1.582	NO bkgnd or offset:	17.7	18.2
NOX coeff or slope:	0.996	0.996	NOX bkgnd or offset:	18.0	18.5
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	213.7	212.8

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOX concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOX concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOx Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	-0.1	0.2	-0.2	----	----
High point	4932	67.7	803.0	800.3	2.7	801.3	798.0	3.3	1.0021	1.0028
Mid point	4966	33.8	400.9	399.5	1.4	400.5	396.6	3.9	1.0010	1.0074
Low point	4983	16.9	200.4	199.8	0.7	200.2	196.6	3.6	1.0012	1.0161
As left zero	5000	0.0	0.0	0.0	0.0	0.0	0.1	-0.1	----	----
As left span	4932	67.7	803.0	392.5	410.5	800.5	392.5	408.1	1.0031	1.0000
Average Correction Factor									1.0014	1.0088

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	-0.2	----	----
High GPT point	793.8	391.7	404.8	404.6	1.0005	99.9%
Mid GPT point	793.8	543.6	252.9	253.0	0.9996	100.0%
Low GPT point	793.8	661.2	135.3	135.8	0.9964	100.4%
Average Correction Factor					0.9988	100.1%

Notes: Sample inlet filter was changed after as founds. Adjusted span only.

Calibration Performed By: Param Kaur



Wood Buffalo Environmental Association

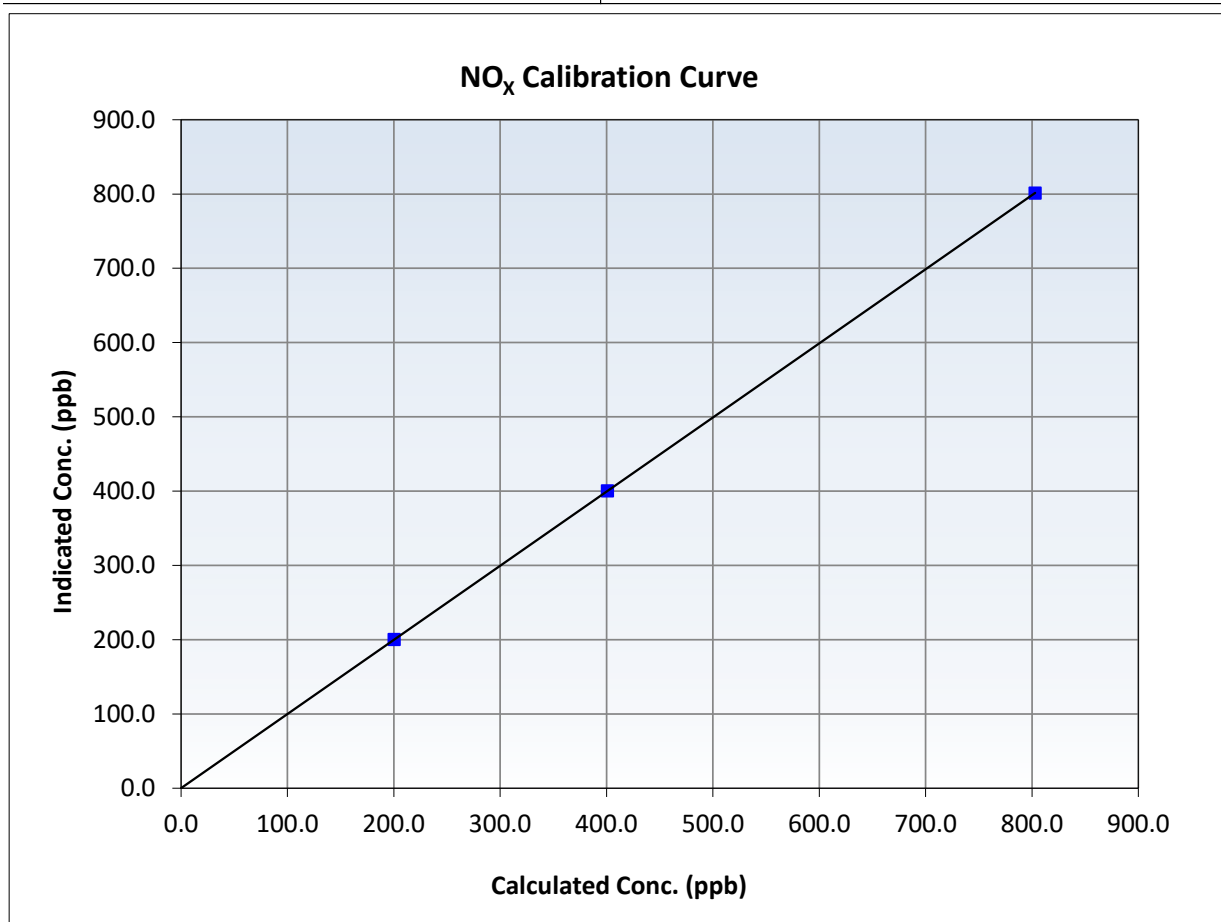
NO_x Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 20, 2026
Station Name:	Ells River	Station Number:	AMS 30
Start Time (MST):	10:11	End Time (MST):	15:14
Analyzer make:	Thermo 42i	Analyzer serial #:	710321429

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.1	----	Correlation Coefficient	1.000000	≥0.995
803.0	801.3	1.0021	Slope	0.998007	0.90 - 1.10
400.9	400.5	1.0010	Intercept	0.101748	+/-20
200.4	200.2	1.0012			





Wood Buffalo Environmental Association

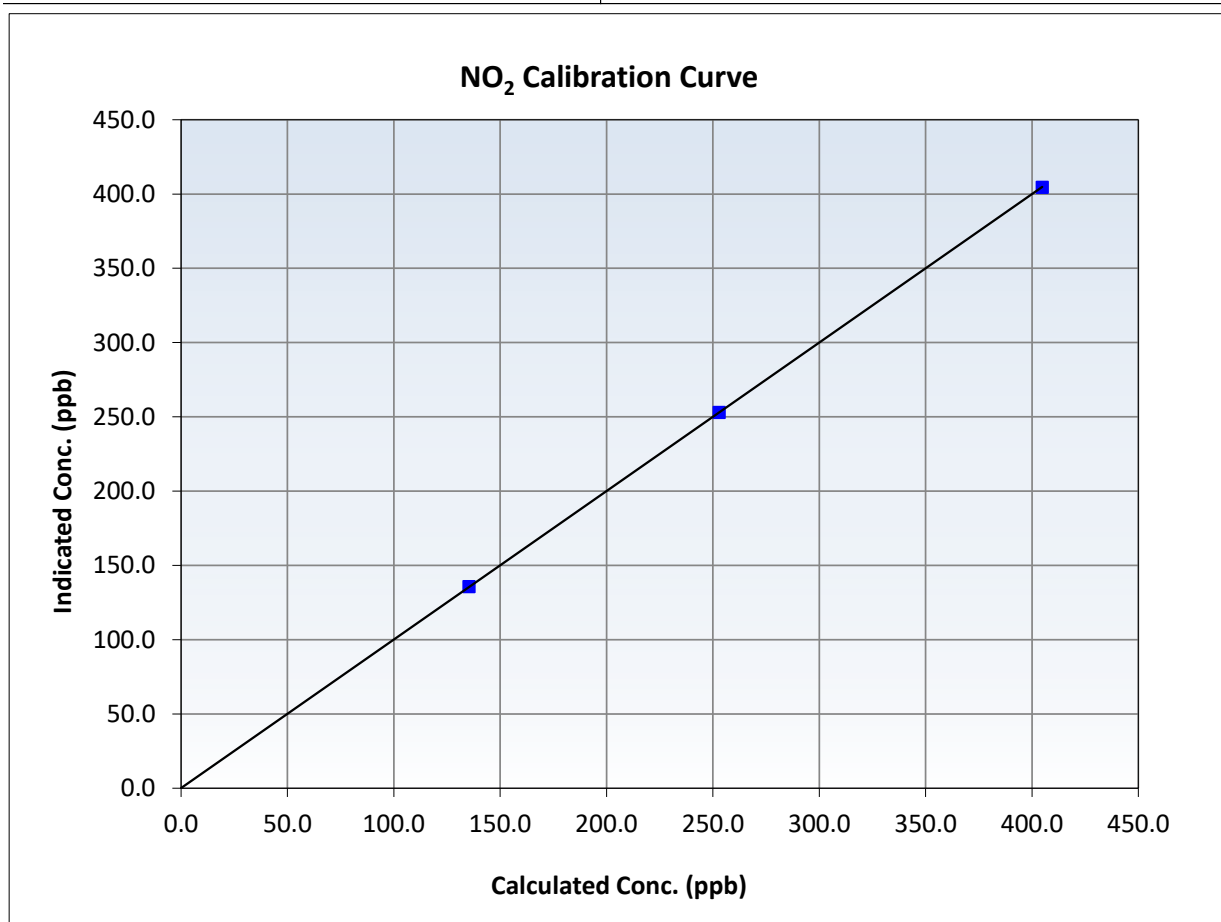
NO₂ Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 20, 2026
Station Name:	Ells River	Station Number:	AMS 30
Start Time (MST):	10:11	End Time (MST):	15:14
Analyzer make:	Thermo 42i	Analyzer serial #:	710321429

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.2	----	Correlation Coefficient	0.999996	≥0.995
404.8	404.6	1.0005	Slope	0.999671	0.90 - 1.10
252.9	253.0	0.9996	Intercept	0.109176	+/-20
135.3	135.8	0.9964			





Wood Buffalo Environmental Association

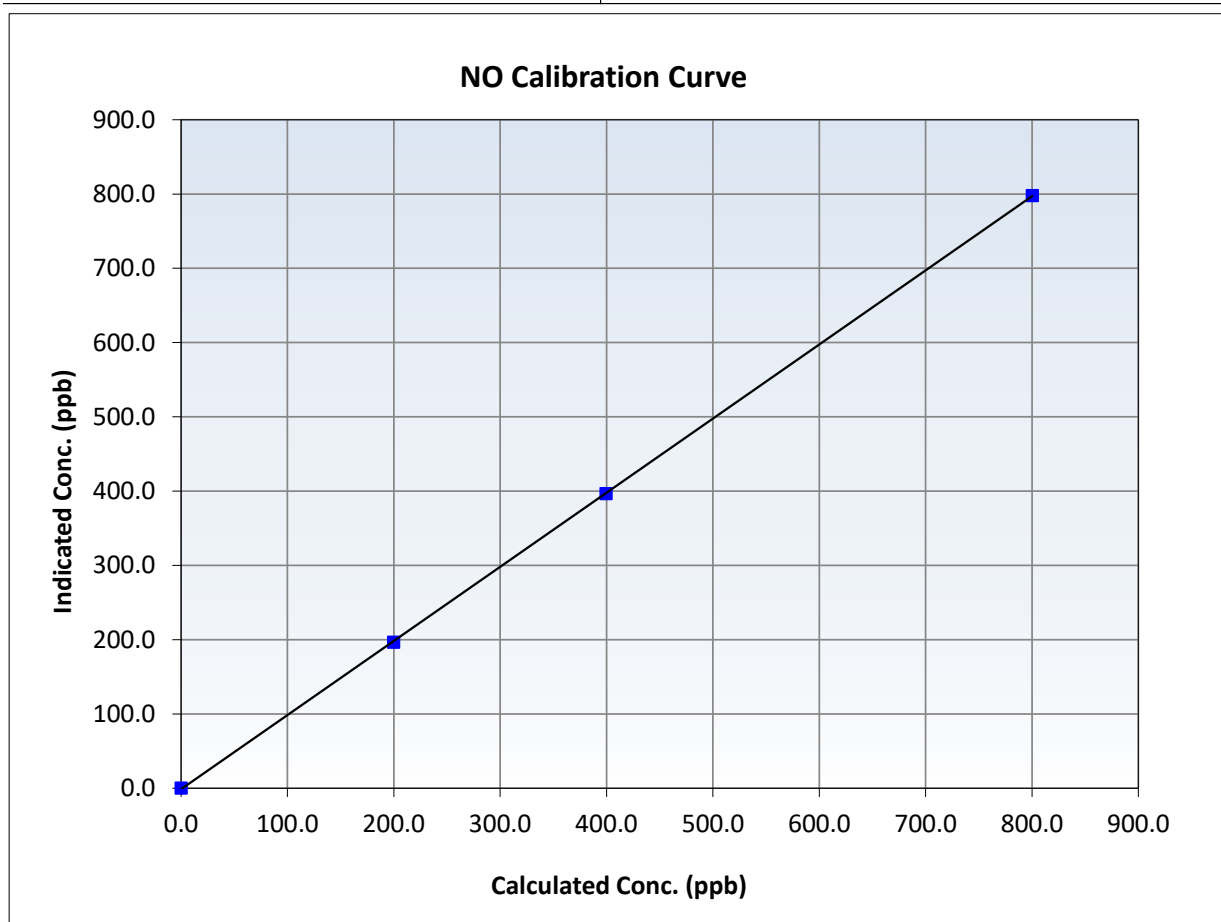
NO Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 20, 2026
Station Name:	Ells River	Station Number:	AMS 30
Start Time (MST):	10:11	End Time (MST):	15:14
Analyzer make:	Thermo 42i	Analyzer serial #:	710321429

Calibration Data

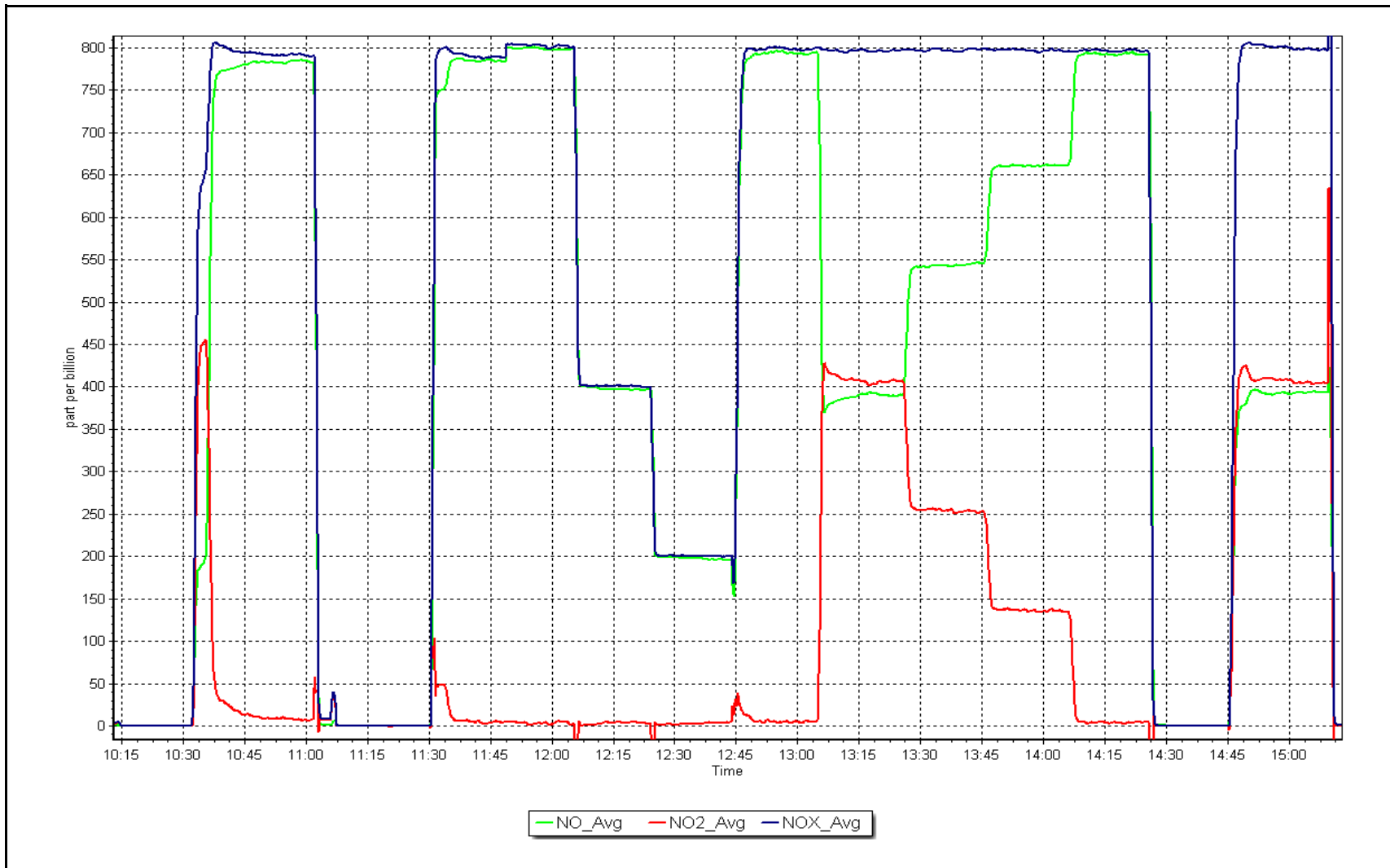
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999984	<i>≥0.995</i>
800.3	798.0	1.0028	Slope	0.997831	<i>0.90 - 1.10</i>
399.5	396.6	1.0074	Intercept	-1.280224	<i>+/-20</i>
199.8	196.6	1.0161			



NO_x Calibration Plot

Date: February 11, 2026

Location: Ells River





Wood Buffalo Environmental Association

T640 PM_{2.5} CALIBRATION

Version-01-2024

Station Information

Station Name: Ells River Station number: AMS 30
 Calibration Date: February 13, 2026 Last Cal Date: January 19, 2026
 Start time (MST): 10:47 End time (MST): 11:30

Analyzer Make: API T640 S/N: 875
 Particulate Fraction: PM2.5

Flow Meter Make/Model: Alicat FP-25BT S/N: 388755
 Temp/RH standard: Alicat FP-25BT S/N: 388755

Monthly Calibration Test

Parameter	As found	Measured	As left	Adjusted	(Limits)
T (°C)	3.00	1.12	3.00	<input type="checkbox"/>	+/- 2 °C
P (mmHg)	725.40	727.18	725.40	<input type="checkbox"/>	+/- 10 mmHg
Flow (LPM)	5.01	5.03	5.01	<input type="checkbox"/>	+/- 0.25 LPM
PW% (pump)	33	----	33	<input type="checkbox"/>	>80%
Zero Verification	PM w/o HEPA: _____	3.70	PM w/ HEPA: _____	0.00	<0.2 ug/m3

Note: this leak check will be completed before the quarterly work and will serve as the pre maintenance leak check

PM Inlet observation : Inlet Head Clean Alignment Factor On :

Quarterly Calibration Test

SPAN DUST Refractive Index: 10.90 Expiry Date: January 30, 2027
 Lot No.: 100128-050-040

Parameter	As found	Post maintenance	As left	Adjusted	(Limits)
PMT Peak Test				<input type="checkbox"/>	+/- 0.5

Date Optical Chamber Cleaned: December 15, 2025
 Date Disposable Filter Changed: December 15, 2025

Post- maintenance Zero Verification: PM w/ HEPA: _____ <0.2 ug/m3

Annual Maintenance

Date Sample Tube Cleaned: June 18, 2025
 Date RH/T Sensor Cleaned: June 18, 2025

Notes: Verified flow, temperature, pump power and pressure. No adjustment made. Leak check passed.

Calibration by: Param Kaur



WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS31 BLACKROD FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Blackrod	Station number:	AMS 31
Calibration Date:	February 3, 2026	Last Cal Date:	January 21, 2026
Start time (MST):	11:43	End time (MST):	16:20
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.25	ppm	Cal Gas Exp Date: March 10, 2031
Cal Gas Cylinder #:	CC327023		
Removed Cal Gas Conc:	50.25	ppm	Rem Gas Exp Date: N/A
Removed Gas Cyl #:	N/A		Diff between cyl:
Calibrator Model:	Teledyne T700		Serial Number: 1220
Zero Air Gen Model:	Teledyne N701H		Serial Number: 72

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number: 1160290014
Analyzer Range:	0 - 1000 ppb	

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.002036	1.007201	Backgd or Offset:	41.9	41.9
Calibration intercept:	-0.562074	-0.543382	Coeff or Slope:	1.028	1.028

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.4	----
As found High point	4921	79.5	798.9	805.4	0.991
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	805.8	Previous response	800.0	*% change	0.7%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.3	----
High point	4921	79.5	798.9	804.1	0.994
Mid point	4960	39.8	400.0	402.6	0.994
Low point	4980	19.9	200.0	200.4	0.998
As left zero	5000	0.0	0.0	0.0	----
As left span	4921	79.5	798.9	806.3	0.991
Average Correction Factor:					0.995

Notes: Sample inlet filter was changed after as founds. No adjustment made

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

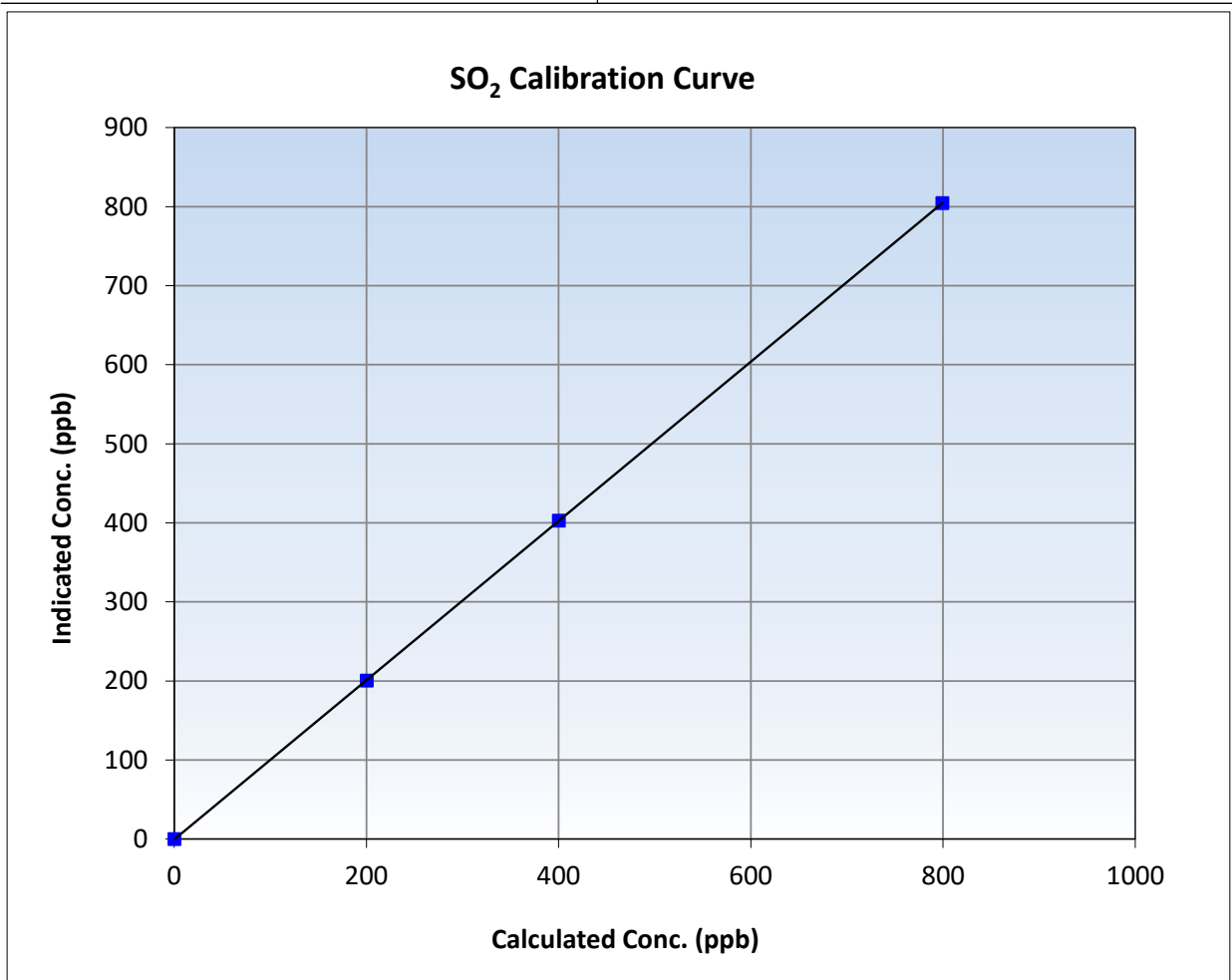
SO₂ Calibration Summary

Station Information

Calibration Date:	February 3, 2026	Previous Calibration:	January 21, 2026
Station Name:	Blackrod	Station Number:	AMS 31
Start Time (MST):	11:43	End Time (MST):	16:20
Analyzer make:	Thermo 43i	Analyzer serial #:	1160290014

Calibration Data

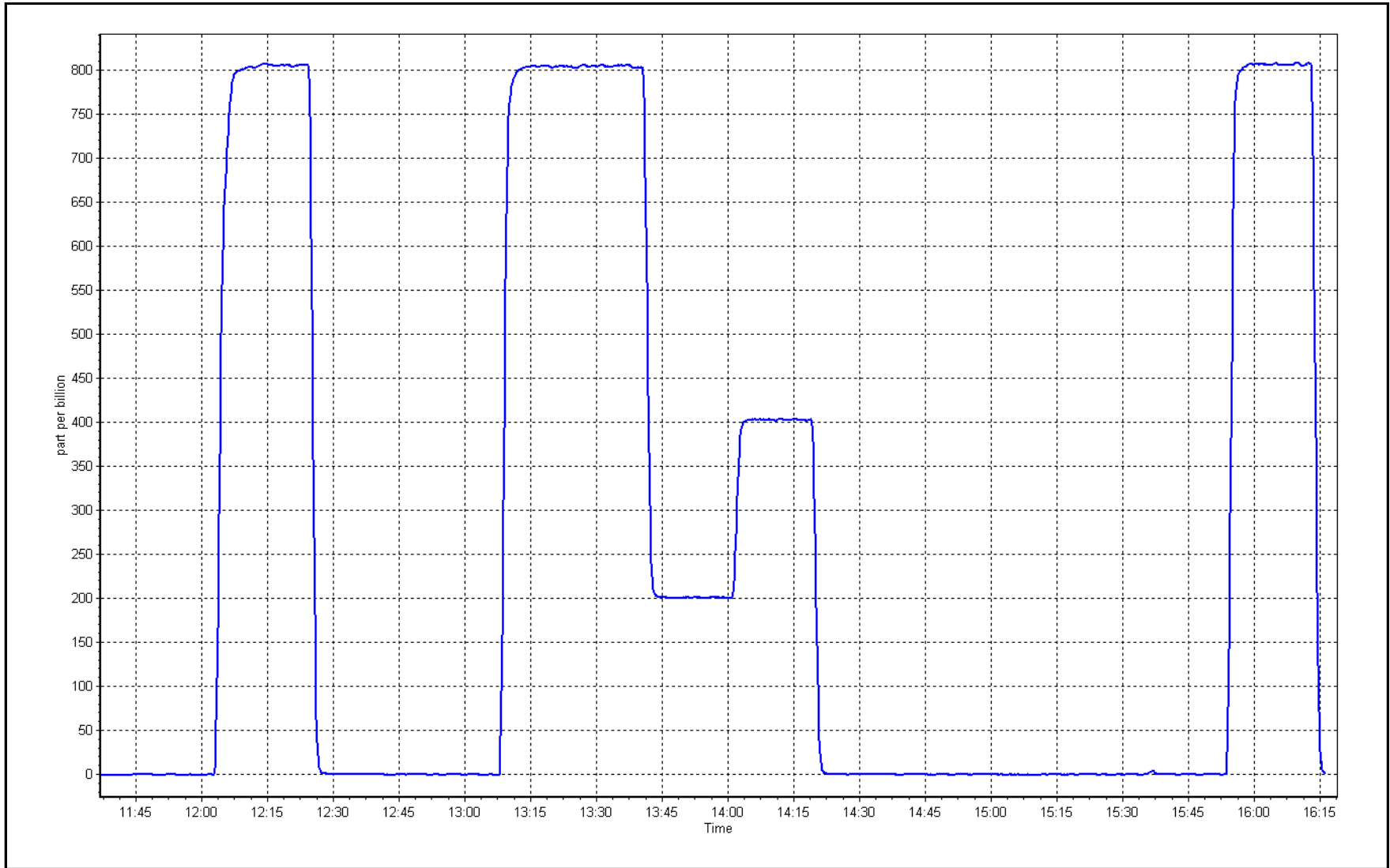
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.3	----	Correlation Coefficient	0.999999	≥0.995
798.9	804.1	0.9935	Slope	1.007201	0.90 - 1.10
400.0	402.6	0.9936	Intercept	-0.543382	+/-30
200.0	200.4	0.9980			



SO2 Calibration Plot

Date: February 3, 2026

Location: Blackrod





Wood Buffalo Environmental Association

H₂S Calibration Report

Station Information

Station Name:	Blackrod	Station number:	AMS 31
Calibration Date:	February 12, 2026	Last Cal Date:	January 22, 2026
Start time (MST):	10:30	End time (MST):	14:35
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	5.42 ppm	Cal Gas Exp Date:	March 19, 2027
Cal Gas Cylinder #:	DT0016926		
Removed Cal Gas Conc:	5.42 ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA	Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700	Serial Number:	1220
ZAG Make/Model:	Teledyne API N701H	Serial Number:	72

Analyzer Information

Analyzer make:	Thermo 43iQTL	Analyzer serial #:	12228021056
Converter make:	Global	Converter serial #:	2023-266
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.008052	1.009049	Backgd or Offset:	3.26	3.04
Calibration intercept:	-0.120619	-0.080554	Coeff or Slope:	1.032	1.006

H₂S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.2	----
As found High point	4926	73.8	80.0	80.6	0.990
As found Mid point	4963	36.9	40.0	40.8	0.976
As found Low point	4982	18.5	20.1	20.2	0.983
New cylinder response					
Baseline Corr As found:	80.8	Prev response:	80.53	*% change:	0.3%
Baseline Corr 2nd AF pt:	41.0	AF Slope:	1.010193	AF Intercept:	-0.020584
Baseline Corr 3rd AF pt:	20.4	AF Correlation:	0.999932	* = +/-5% change initiates investigation	

H₂S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	4926	73.8	80.0	80.6	0.993
Mid point	4963	36.9	40.0	40.4	0.990
Low point	4982	18.5	20.1	20.1	0.998
As left zero	5000	0.0	0.0	0.1	----
As left span	4926	73.8	80.0	80.4	0.995
SO2 Scrubber Check	4921	79.5	794.9	0.0	----
Date of last scrubber change:	27-Aug-25		Ave Corr Factor		0.993
Date of last converter efficiency test:	October 9, 2025				

Notes: Sample inlet filter was changed after multipoint as founds. SO2 scrubber done and passed. Adjusted zero and span.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

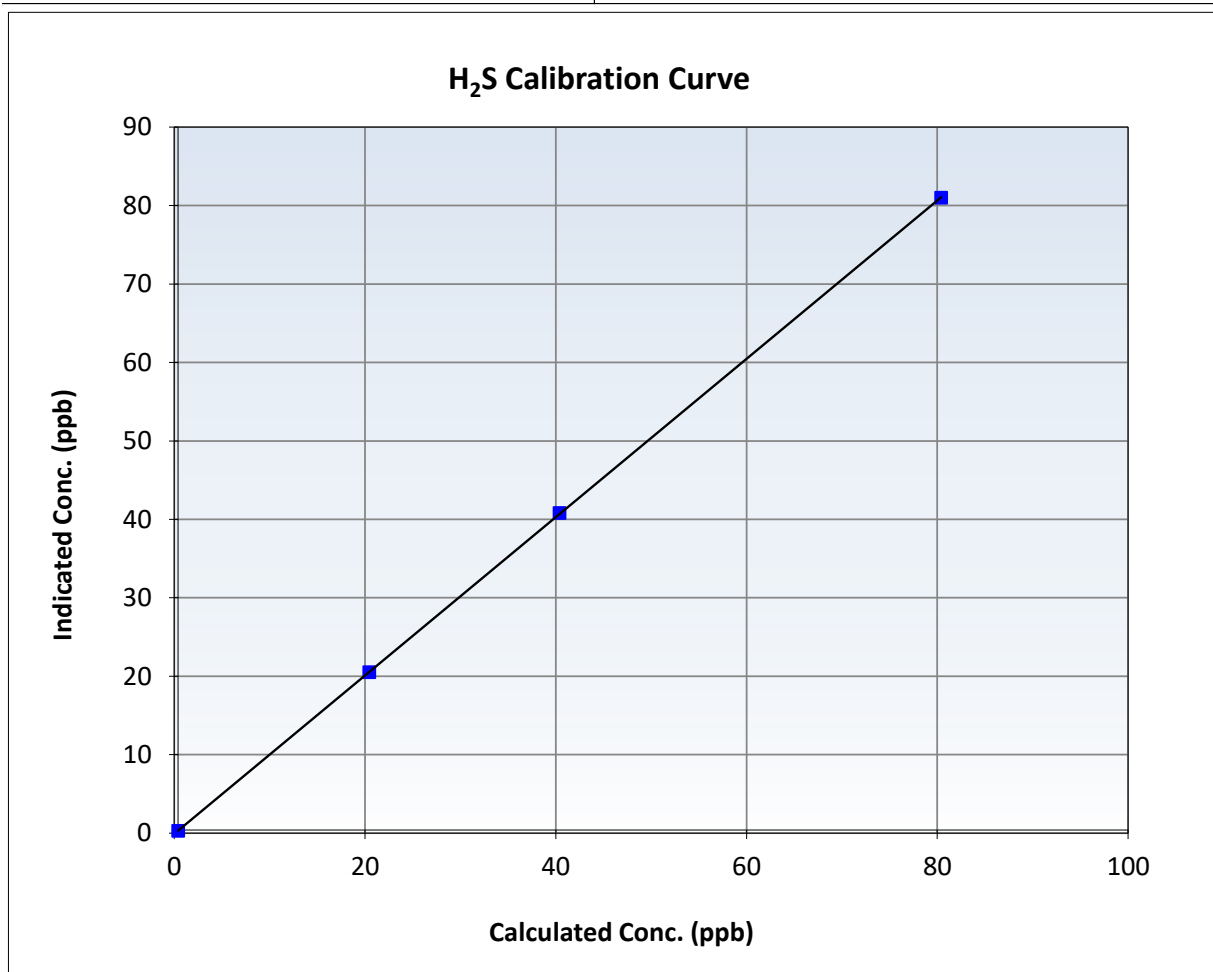
H₂S Calibration Summary

Station Information

Calibration Date:	February 12, 2026	Previous Calibration:	January 22, 2026
Station Name:	Blackrod	Station Number:	AMS 31
Start Time (MST):	10:30	End Time (MST):	14:35
Analyzer make:	Thermo 43iQTL	Analyzer serial #:	12228021056

Calibration Data

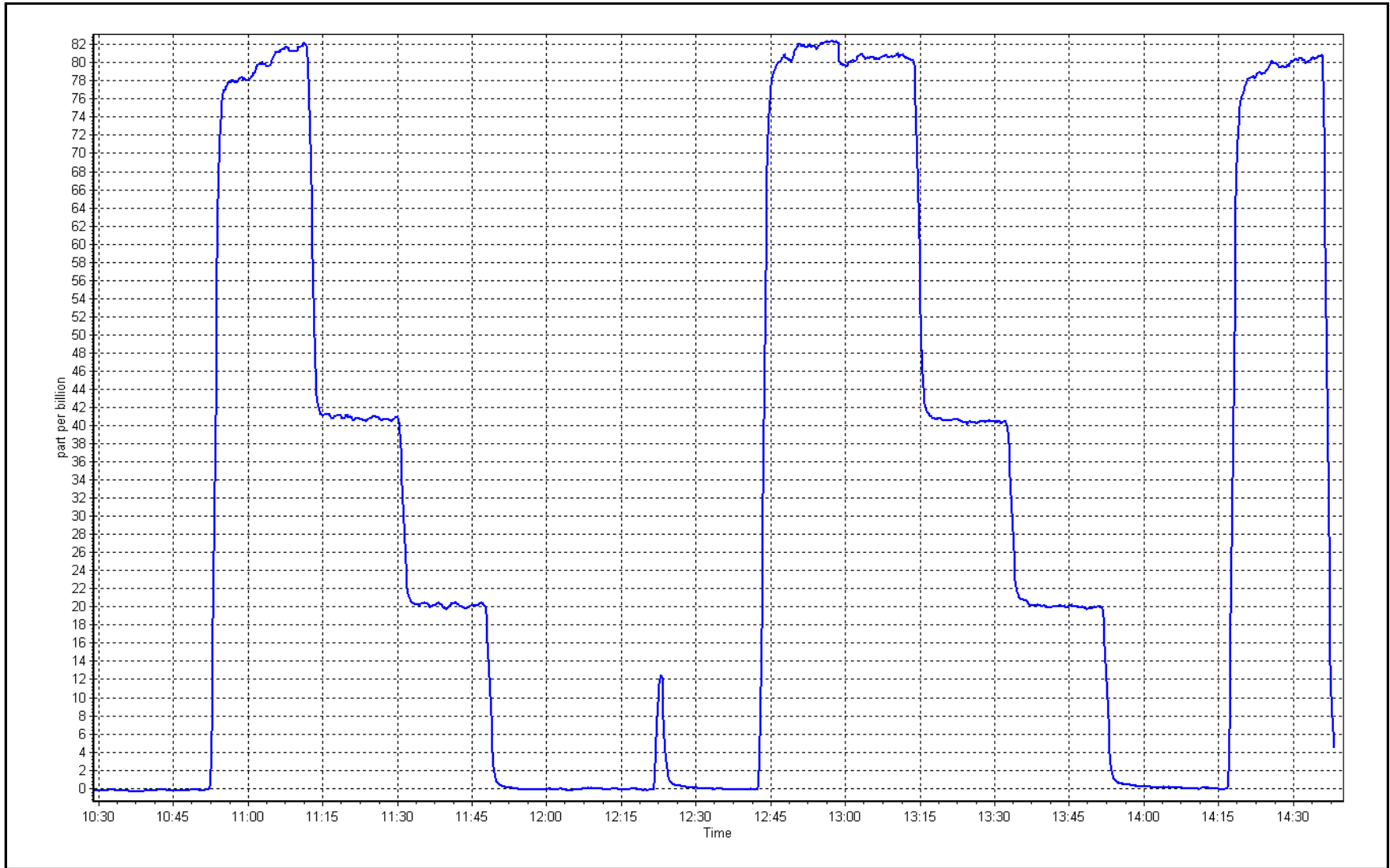
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.1	----	Correlation Coefficient	0.999995	≥ 0.995
80.0	80.6	0.9926	Slope	1.009049	$0.90 - 1.10$
40.0	40.4	0.9901	Intercept	-0.080554	± 3
20.1	20.1	0.9976			



H₂S Calibration Plot

Date: February 12, 2026

Location: Blackrod





Wood Buffalo Environmental Association

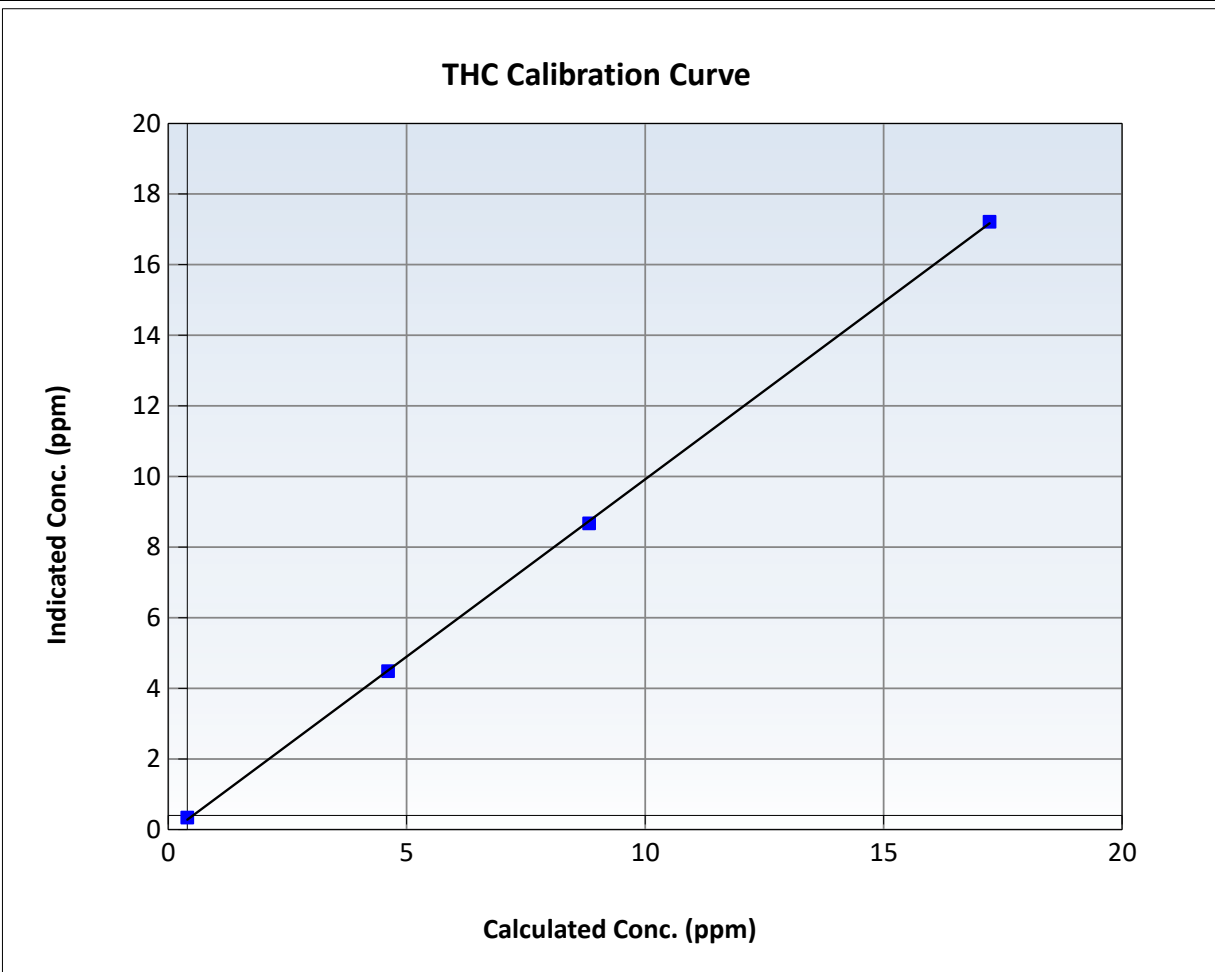
THC Calibration Summary

Station Information

Calibration Date:	February 4, 2026	Previous Calibration:	NA
Station Name:	Blackrod	Station Number:	AMS 31
Start Time (MST):	13:18	End Time (MST):	15:09
Analyzer make:	Thermo 51i- LT	Analyzer serial #:	1505164380

Calibration Data

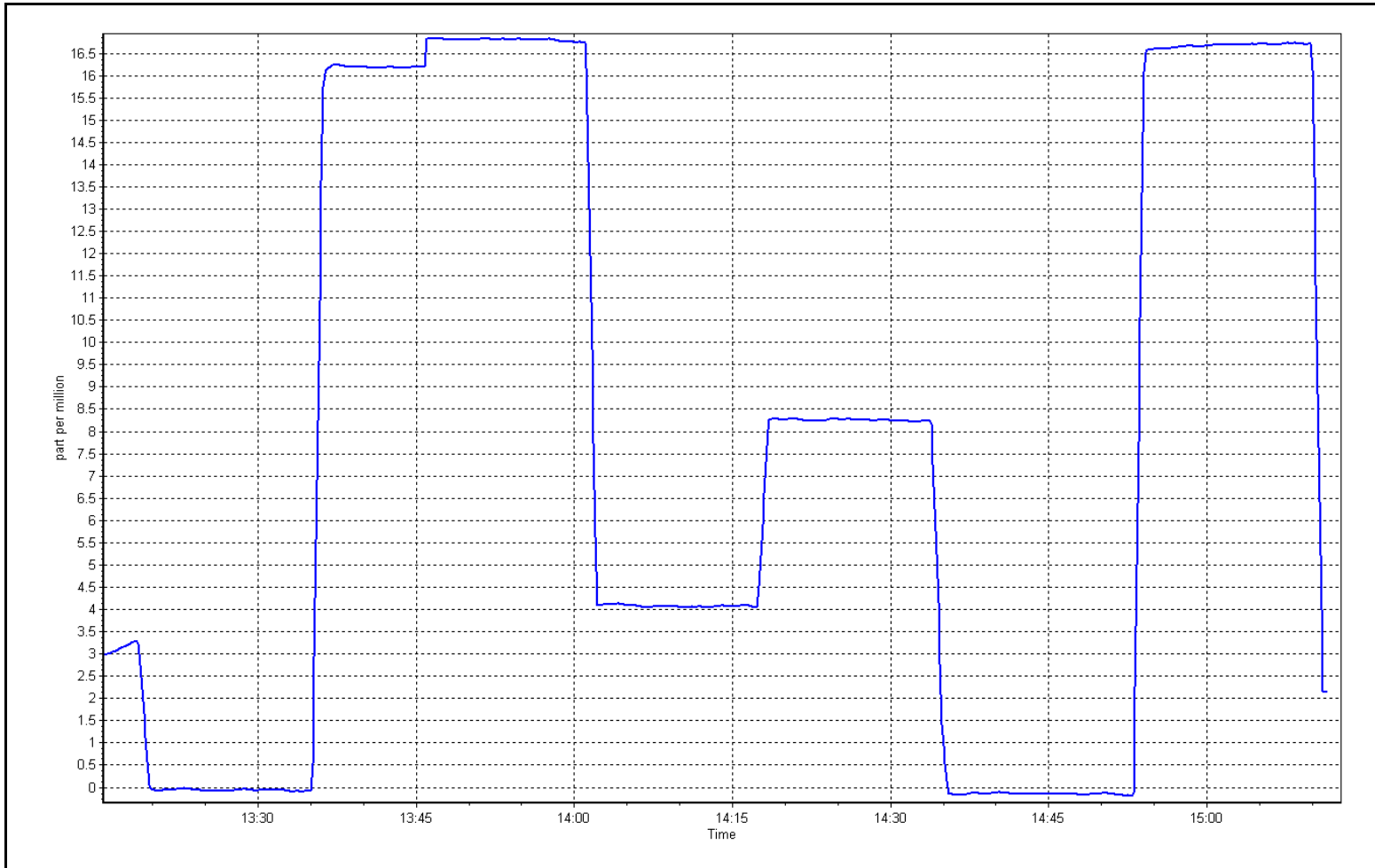
Calculated Concentration (ppm) (Cc)	Indicated Concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.00	-0.06	----	Correlation Coefficient	0.999934	≥0.995
16.82	16.81	1.0005	Slope	1.004133	0.90 - 1.10
8.42	8.27	1.0185	Intercept	-0.119843	+/-1.5
4.21	4.08	1.0322			



THC Calibration Plot

Date: February 4, 2026

Location: Blackrod





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Blackrod
 Station number: AMS 31
 Calibration Date: February 11, 2026
 Last Cal Date: January 27, 2026
 Start time (MST): 10:44
 End time (MST): 14:55
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0035071
 NOX Cal Gas Conc: 59.30 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 59.30 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API N701H
 Cal Gas Expiry Date: January 9, 2032
 NO Cal Gas Conc: 59.10 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 59.10 ppm
 NO gas Diff:
 Serial Number: 1220
 Serial Number: 72

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	----	----
AF High point	4932	67.7	803.0	800.3	2.7	801.4	793.6	7.7	1.0020	1.0083
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 802.2 ppb		NO = 799.3 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -0.1%	
Baseline Corr 1st pt	NO _x = 801.4 ppb		NO = 793.7 ppb			<u>As Found Statistics</u>		*Percent Change	NO = -0.7%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1173480006

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.998633	0.999145
NO _x Cal Offset:	0.281878	0.402041
NO Cal Slope:	1.000002	1.000429
NO Cal Offset:	-0.939605	-0.939213
NO ₂ Cal Slope:	1.001223	0.999839
NO ₂ Cal Offset:	-0.180527	1.223371

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.947	0.958	NO bkgnd or offset:	2.2	2.3
NOX coeff or slope:	0.996	0.996	NOX bkgnd or offset:	2.3	2.3
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	146.5	145.6

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.2	0.1	0.1	----	----
High point	4932	67.7	803.0	800.3	2.7	802.5	800.1	2.5	1.0006	1.0002
Mid point	4966	33.8	400.9	399.5	1.4	401.3	398.5	2.8	0.9990	1.0026
Low point	4983	16.9	200.4	199.8	0.7	200.7	197.7	3.0	0.9987	1.0104
As left zero	5000	0.0	0.0	0.0	0.0	0.2	0.1	0.1	----	----
As left span	4932	67.7	803.0	383.9	419.1	801.3	383.9	417.5	1.0021	1.0000
Average Correction Factor									0.9994	1.0044

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.1	----	----
High GPT point	797.0	384.6	415.1	415.6	0.9988	100.1%
Mid GPT point	797.0	588.7	211.0	213.0	0.9906	100.9%
Low GPT point	797.0	691.5	108.2	110.4	0.9801	102.0%
Average Correction Factor					0.9899	101.0%

Notes: Sample inlet filter was changed after as founds. Adjusted span only.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

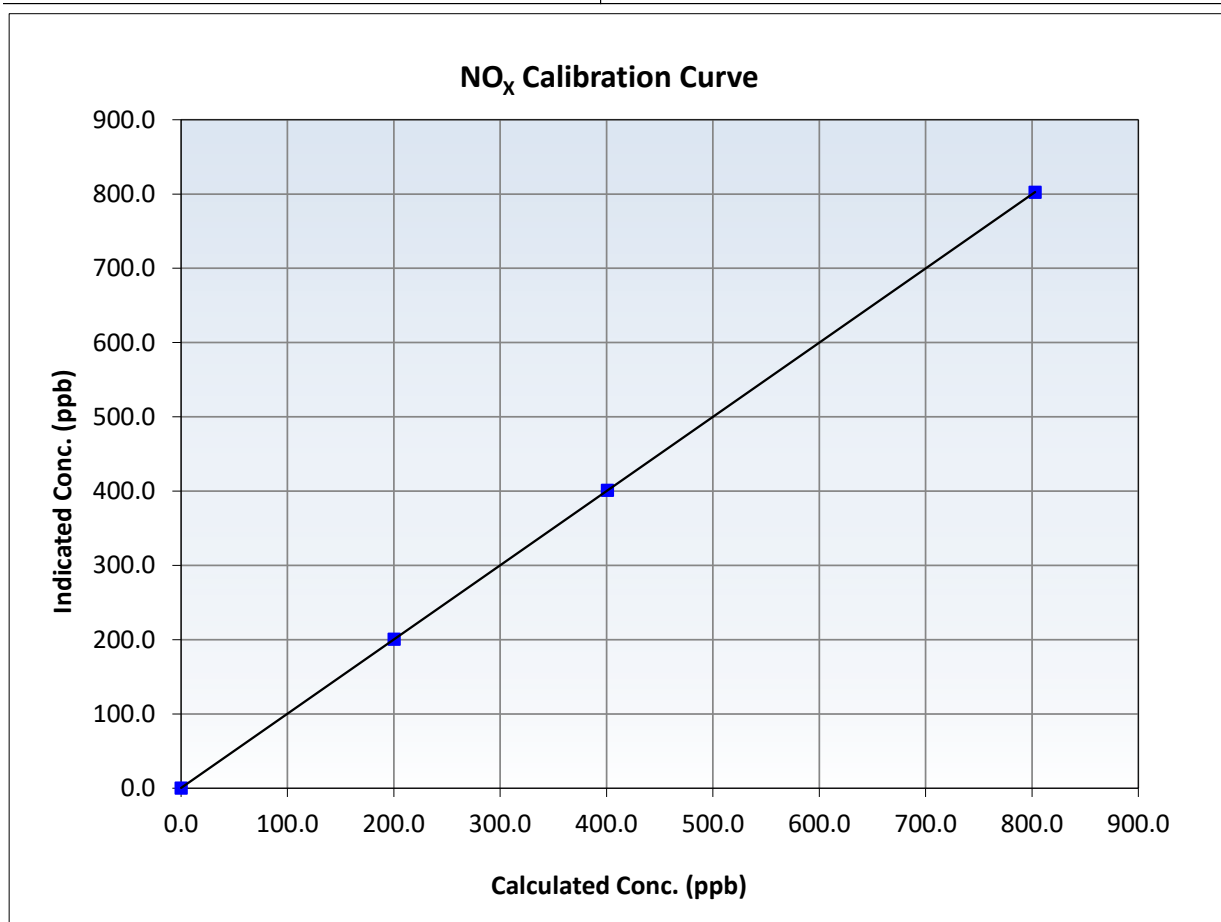
NO_x Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 27, 2026
Station Name:	Blackrod	Station Number:	AMS 31
Start Time (MST):	10:44	End Time (MST):	14:55
Analyzer make:	Thermo 42i	Analyzer serial #:	1173480006

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.2	----	Correlation Coefficient	0.999999	≥0.995
803.0	802.5	1.0006	Slope	0.999145	0.90 - 1.10
400.9	401.3	0.9990	Intercept	0.402041	+/-20
200.4	200.7	0.9987			





Wood Buffalo Environmental Association

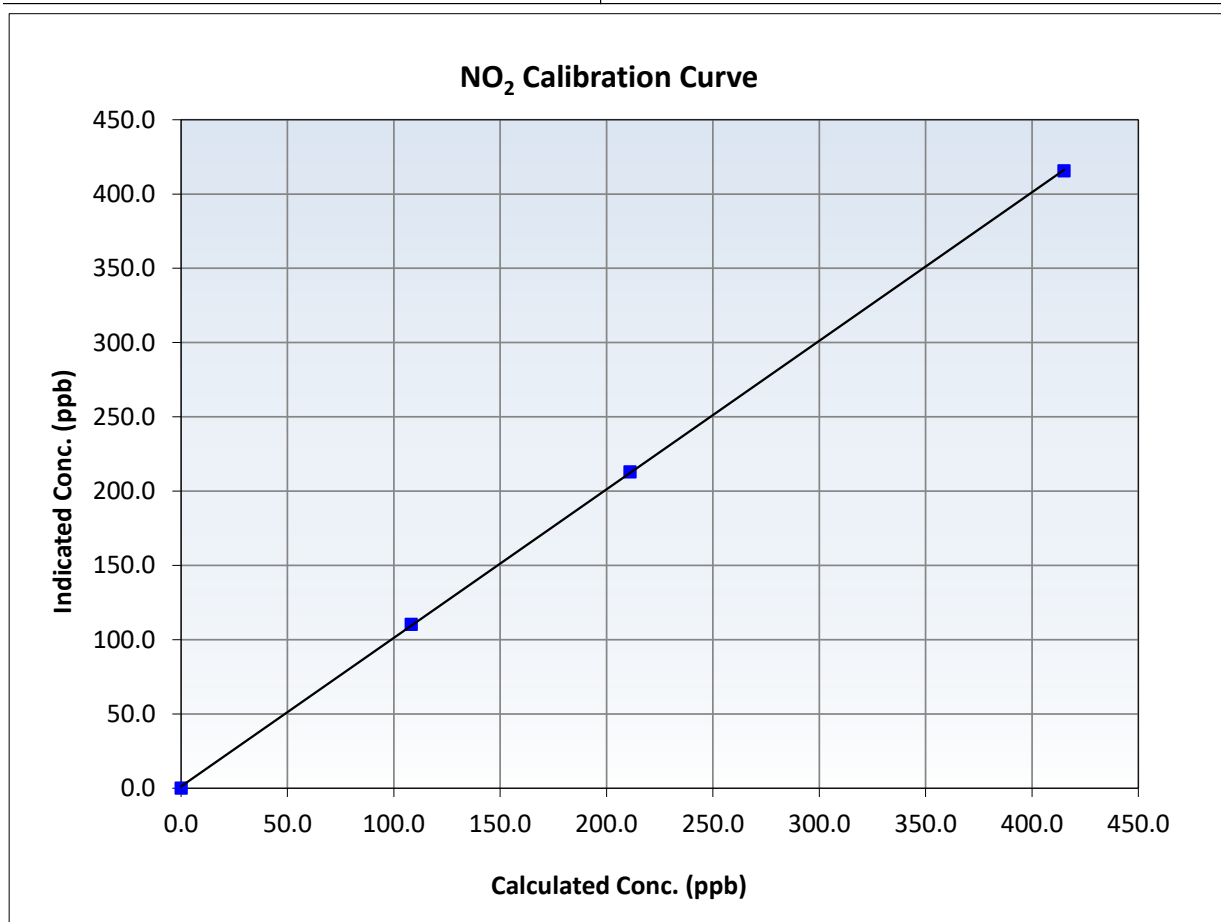
NO₂ Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 27, 2026
Station Name:	Blackrod	Station Number:	AMS 31
Start Time (MST):	10:44	End Time (MST):	14:55
Analyzer make:	Thermo 42i	Analyzer serial #:	1173480006

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999965	<i>≥0.995</i>
415.1	415.6	0.9988	Slope	0.999839	<i>0.90 - 1.10</i>
211.0	213.0	0.9906	Intercept	1.223371	<i>+/-20</i>
108.2	110.4	0.9801			





Wood Buffalo Environmental Association

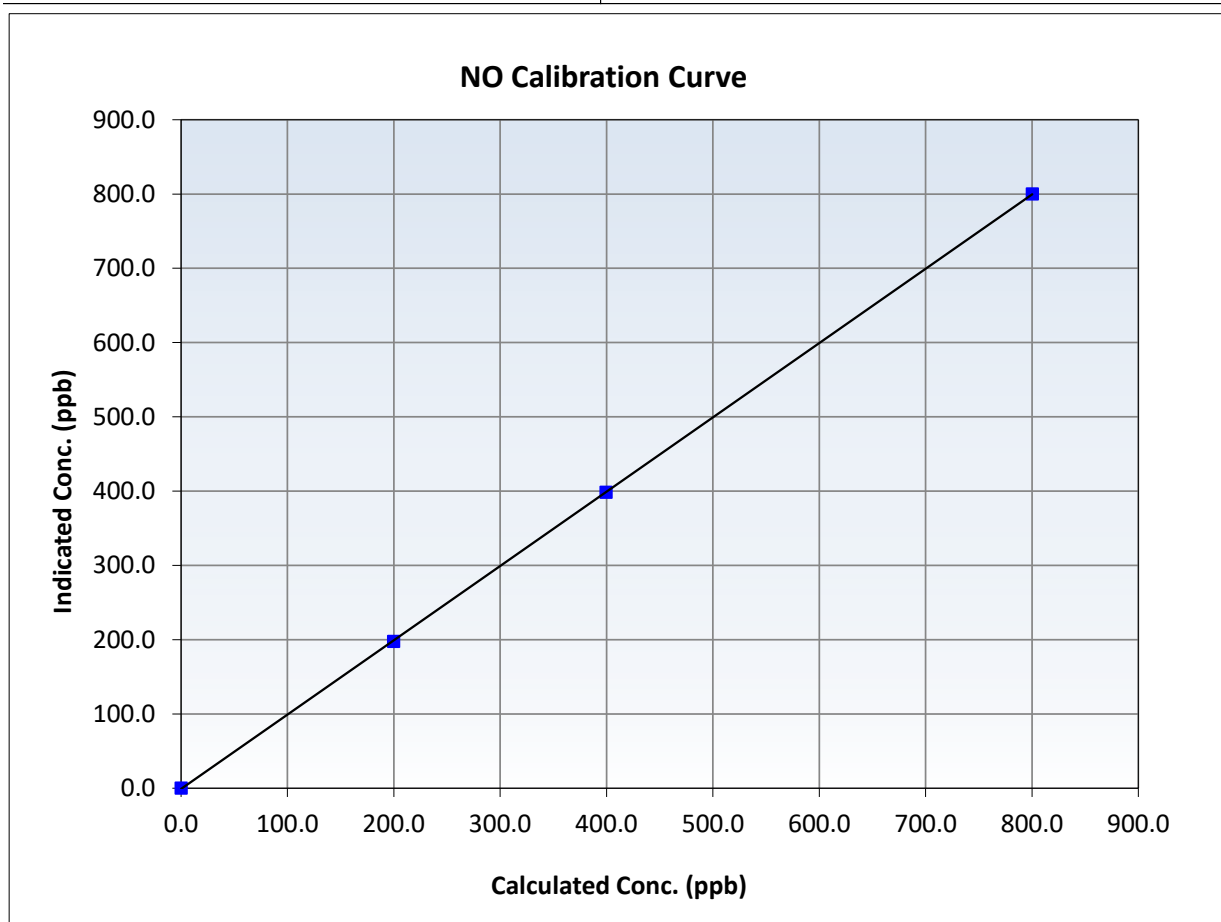
NO Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 27, 2026
Station Name:	Blackrod	Station Number:	AMS 31
Start Time (MST):	10:44	End Time (MST):	14:55
Analyzer make:	Thermo 42i	Analyzer serial #:	1173480006

Calibration Data

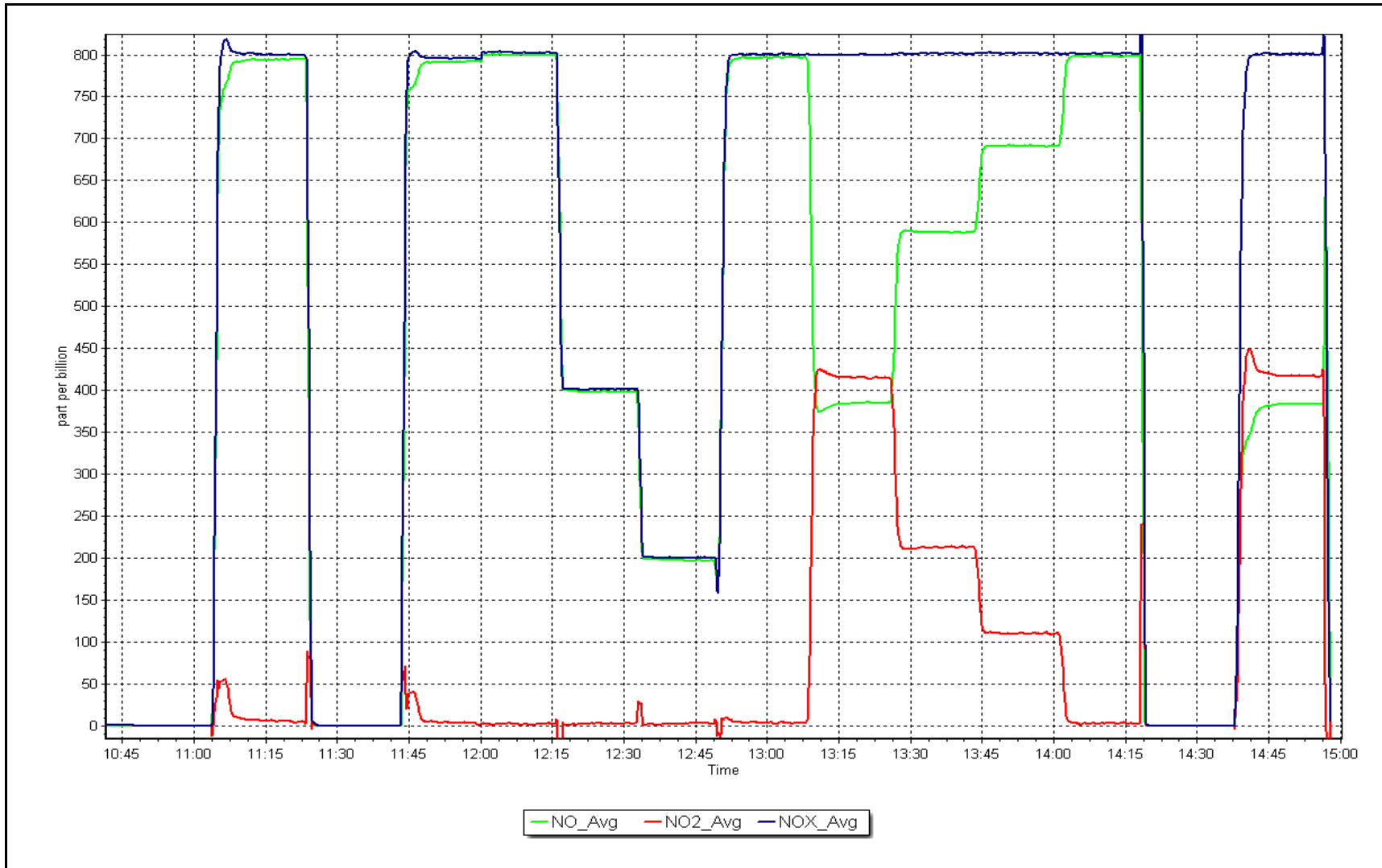
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999992	<i>≥0.995</i>
800.3	800.1	1.0002	Slope	1.000429	<i>0.90 - 1.10</i>
399.5	398.5	1.0026	Intercept	-0.939213	<i>+/-20</i>
199.8	197.7	1.0104			



NO_x Calibration Plot

Date: February 11, 2026

Location: Blackrod





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS33 MONDAY CREEK FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Monday Creek	Station number:	AMS 33
Calibration Date:	February 17, 2026	Last Cal Date:	January 6, 2026
Start time (MST):	13:10	End time (MST):	15:51
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.62	ppm	Cal Gas Exp Date:	March 10, 2031
Cal Gas Cylinder #:	EB0008522			
Removed Cal Gas Conc:	50.62	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Model:	Teledyne T700		Serial Number:	3253
Zero Air Gen Model:	Teledyne T701H		Serial Number:	832

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	1152430005
Analyzer Range:	0- 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.998572	1.005580	Backgd or Offset:	33.6	32.5
Calibration intercept:	-0.378072	-0.158121	Coeff or Slope:	1.016	1.016

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.6	----
As found High point	4921	79.1	800.8	802.0	0.998
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	802.6	Previous response	799.3	*% change	0.4%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	4921	79.1	800.8	805.0	0.995
Mid point	4961	39.5	399.9	402.3	0.994
Low point	4980	19.8	200.5	201.1	0.997
As left zero	5000	0.0	0.0	0.1	----
As left span	4921	79.1	800.8	806.0	0.994
Average Correction Factor:					0.995

Notes: Sample inlet filter was changed after as founds. Adjusted zero only.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

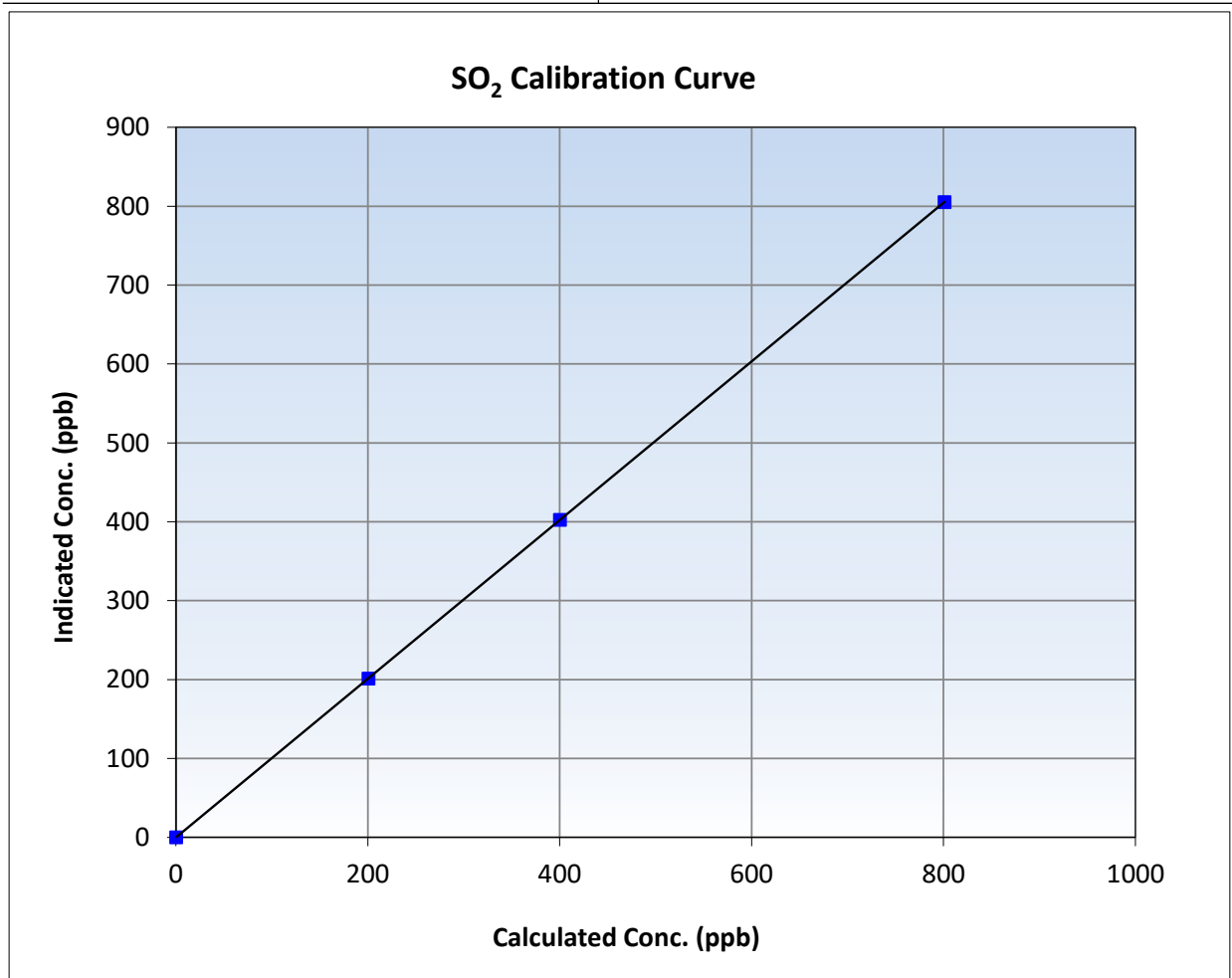
SO₂ Calibration Summary

Station Information

Calibration Date:	February 17, 2026	Previous Calibration:	January 6, 2026
Station Name:	Monday Creek	Station Number:	AMS 33
Start Time (MST):	13:10	End Time (MST):	15:51
Analyzer make:	Thermo 43i	Analyzer serial #:	1152430005

Calibration Data

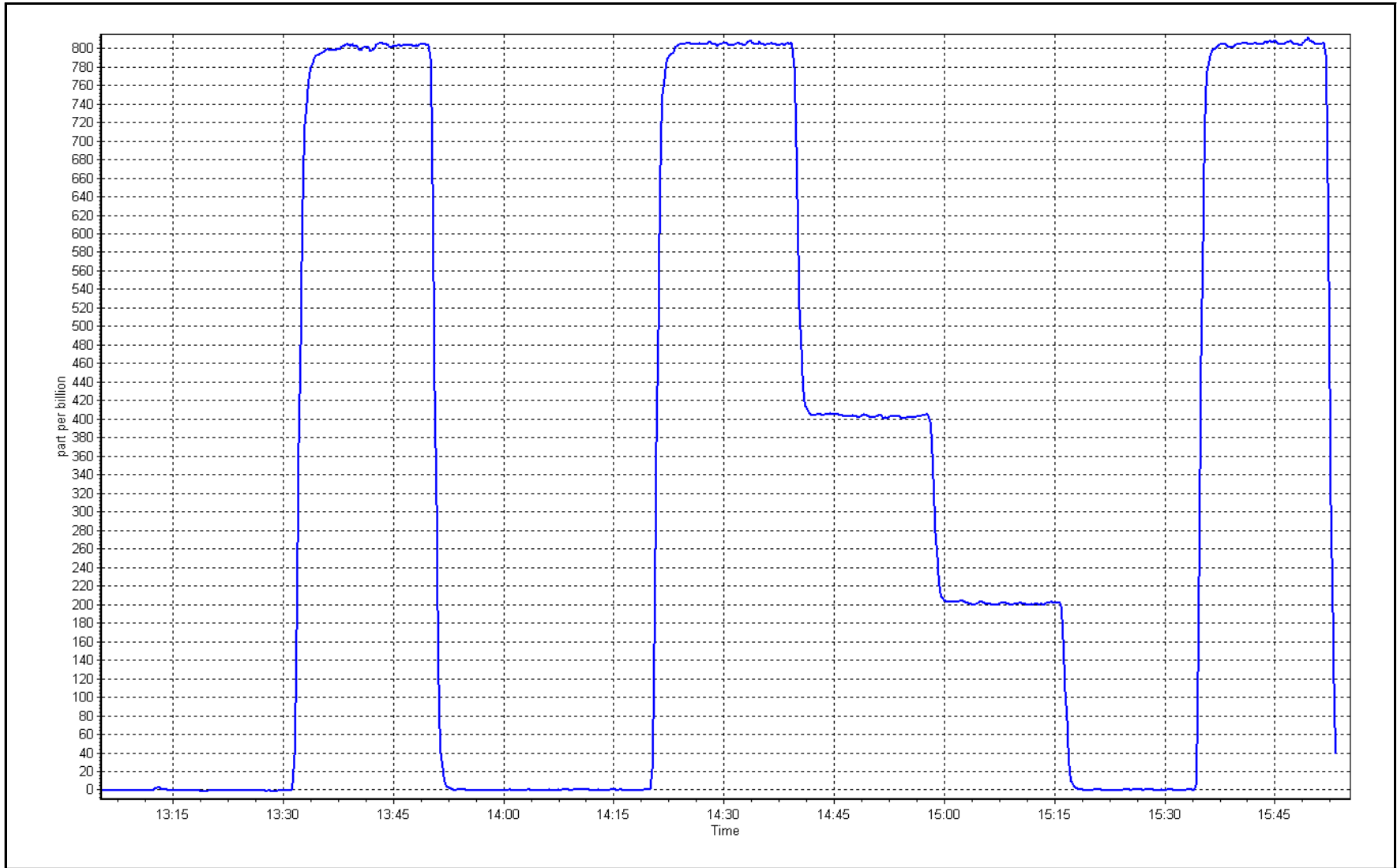
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	-0.1	----	Correlation Coefficient	0.999999	≥0.995
800.8	805.0	0.9948	Slope	1.005580	0.90 - 1.10
399.9	402.3	0.9939	Intercept	-0.158121	+/-30
200.5	201.1	0.9968			



SO2 Calibration Plot

Date: February 17, 2026

Location: Monday Creek





Wood Buffalo Environmental Association

H2S Calibration Report

Station Information

Station Name:	Monday Creek	Station number:	AMS 33
Calibration Date:	February 27, 2026	Last Cal Date:	January 14, 2026
Start time (MST):	12:29	End time (MST):	16:17
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	5.05 ppm	Cal Gas Exp Date:	November 15, 2026
Cal Gas Cylinder #:	DT0014831		
Removed Cal Gas Conc:	5.05 ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA	Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700	Serial Number:	3253
ZAG Make/Model:	Teledyne T701H	Serial Number:	832

Analyzer Information

Analyzer make:	Thermo 43iQTL	Analyzer serial #:	12333331547
Converter make:	Global 150	Converter serial #:	2022-196
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.013571	1.004569	Backgd or Offset:	1.6	1.8
Calibration intercept:	0.178375	0.018387	Coeff or Slope:	1.100	1.100

H2S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4921	79.2	80.0	81.2	0.985
As found Mid point	4960	39.6	40.0	41.0	0.976
As found Low point	4980	19.8	20.0	20.7	0.966
New cylinder response					
Baseline Corr As found:	81.2	Prev response:	81.25	*% change:	-0.1%
Baseline Corr 2nd AF pt:	41.0	AF Slope:	1.013999	AF Intercept:	0.238365
Baseline Corr 3rd AF pt:	20.7	AF Correlation:	0.999958	<i>* = > +/-5% change initiates investigation</i>	

H2S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	4921	79.2	80.0	80.3	0.996
Mid point	4960	39.6	40.0	40.3	0.993
Low point	4980	19.8	20.0	20.2	0.990
As left zero	5000	0.0	0.0	0.0	----
As left span	4921	79.2	80.0	81.3	0.984
SO2 Scrubber Check	4921	79.1	791.0	0.1	----
Date of last scrubber change:	11-Apr-24			Ave Corr Factor	0.993
Date of last converter efficiency test:	October 22, 2025				

Notes: Sample inlet filter was changed after multipoint as founds. SO2 scrubber check done and passed. Adjusted zero only.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

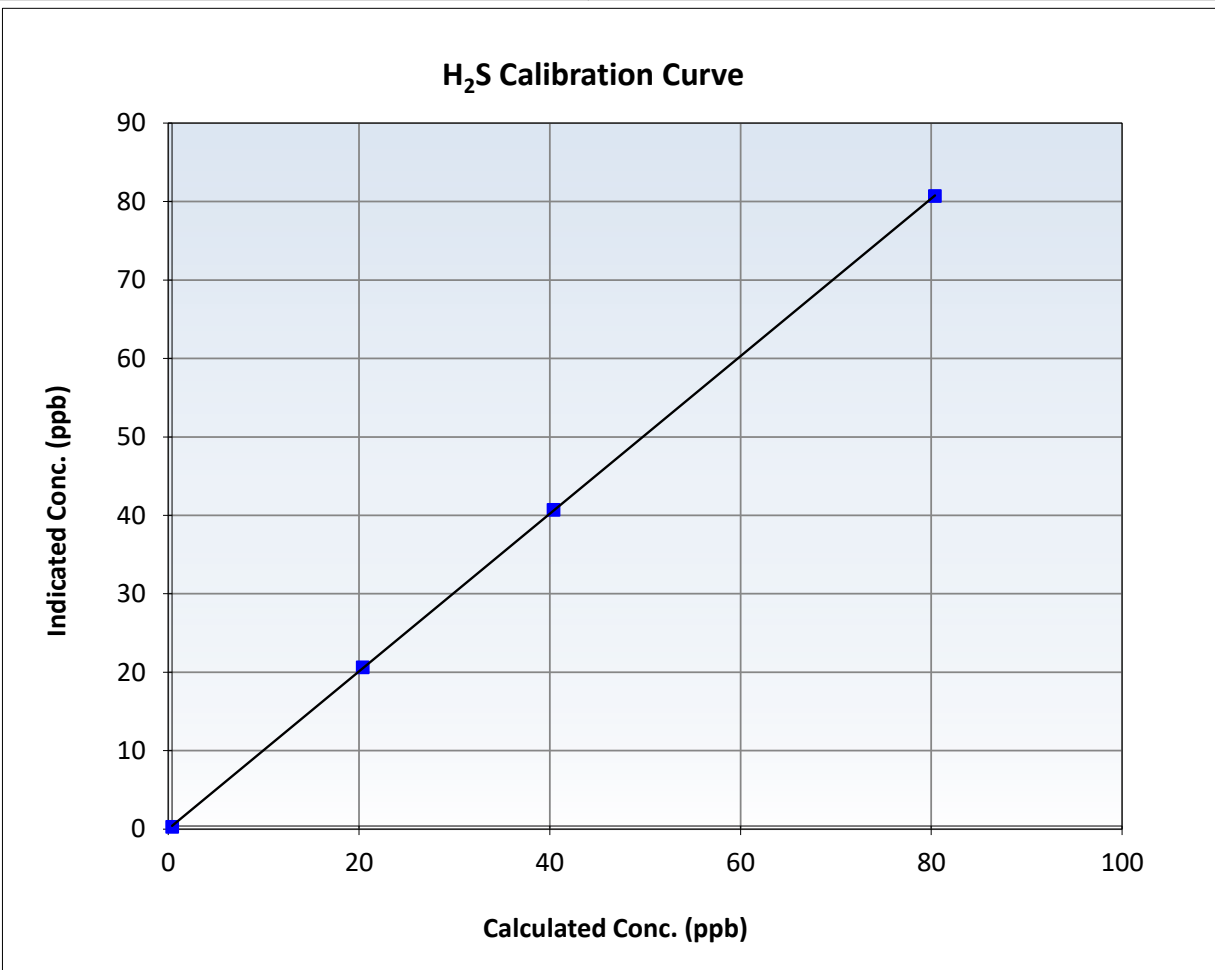
H2S Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	January 14, 2026
Station Name:	Monday Creek	Station Number:	AMS 33
Start Time (MST):	12:29	End Time (MST):	16:17
Analyzer make:	Thermo 43iQTL	Analyzer serial #:	12333331547

Calibration Data

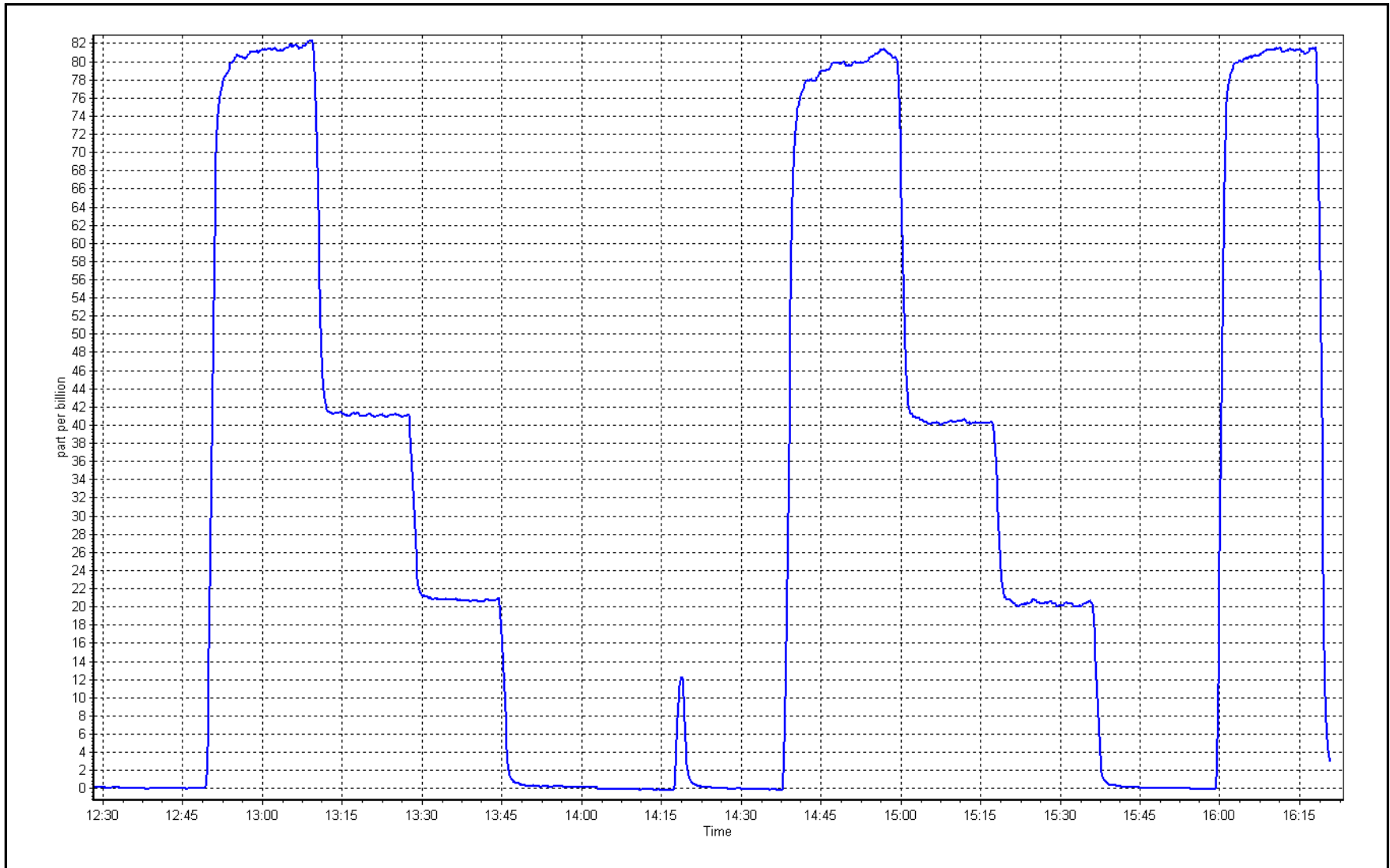
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.1	----	Correlation Coefficient	0.999989	≥ 0.995
80.0	80.3	0.9961	Slope	1.004569	$0.90 - 1.10$
40.0	40.3	0.9925	Intercept	0.018387	± 3
20.0	20.2	0.9900			



H2S Calibration Plot

Date: February 27, 2026

Location: Monday Creek





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Monday Creek
 Station number: AMS 33
 Calibration Date: February 17, 2026
 Last Cal Date: January 14, 2026
 Start time (MST): 10:47
 End time (MST): 13:10
 Reason: Removal

Calibration Standards

NO Gas Cylinder #: CC755290
 NOX Cal Gas Conc: 48.90 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 48.90 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701H
 Cal Gas Expiry Date: March 11, 2031
 NO Cal Gas Conc: 48.70 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 48.70 ppm
 NO gas Diff:
 Serial Number: 3253
 Serial Number: 832

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.3	-0.3	0.0	----	----
AF High point	4918	82.1	802.9	799.6	3.3	800.6	794.9	5.8	1.0025	1.0056
AF Mid point	4959	41.1	401.9	400.3	1.6	401.4	397.0	4.4	1.0006	1.0076
AF Low point	4980	20.5	200.5	199.7	0.8	201.2	197.8	3.4	0.9949	1.0078
New cyl resp										
Previous Response	NO _x = 806.8 ppb	NO = 802.5 ppb				* = > +/-5% change initiates investigation		*Percent Change	NO _x = -0.7%	
Baseline Corr 1st pt	NO _x = 800.9 ppb	NO = 795.2 ppb				<u>As Found Statistics</u>		*Percent Change	NO = -0.9%	
Baseline Corr 2nd pt	NO _x = 401.7 ppb	NO = 397.3 ppb				As found	NO _x r ² : 0.999996	Nx SI: 0.996935	Nx Int: 0.467	
Baseline Corr 3rd pt	NO _x = 201.5 ppb	NO = 198.1 ppb				As found	NO r ² : 0.999999	NO SI: 0.994527	NO Int: -0.633	
						As found	NO ₂ r ² : 0.999783	NO ₂ SI: 0.947922	NO ₂ Int: 2.587	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero	----	----	0.0	0.0	----	----
As found high GPT point	789.3	394.7	397.9	378.3	1.0518	95.1%
As found mid GPT point	789.3	606.0	186.6	181.6	1.0274	97.3%
As found low GPT point	789.3	699.2	93.4	93.0	1.0041	99.6%



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42iQ
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 12426335704

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	1.003341	
NO _x Cal Offset:	1.230558	
NO Cal Slope:	1.002603	
NO Cal Offset:	0.730591	
NO ₂ Cal Slope:	0.989413	
NO ₂ Cal Offset:	1.424181	

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.057		NO bkgnd or offset:	1.4	
NOX coeff or slope:	1.001		NOX bkgnd or offset:	1.5	
NO2 coeff or slope:	0.990		Reaction cell Press:	135.3	

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
-----------	---------------------------	-----------------------------	-----------------------------------------------------	----------------------------------------	-----------------------------------------------------	----------------------------------------------------	---------------------------------------	----------------------------------------------------	-----------------------------------------------------------------------	----------------------------------------------------------

Cal zero
 High point
 Mid point
 Low point
 As left zero
 As left span

Average Correction Factor

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
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Cal zero
 High GPT point
 Mid GPT point
 Low GPT point

Average Correction Factor

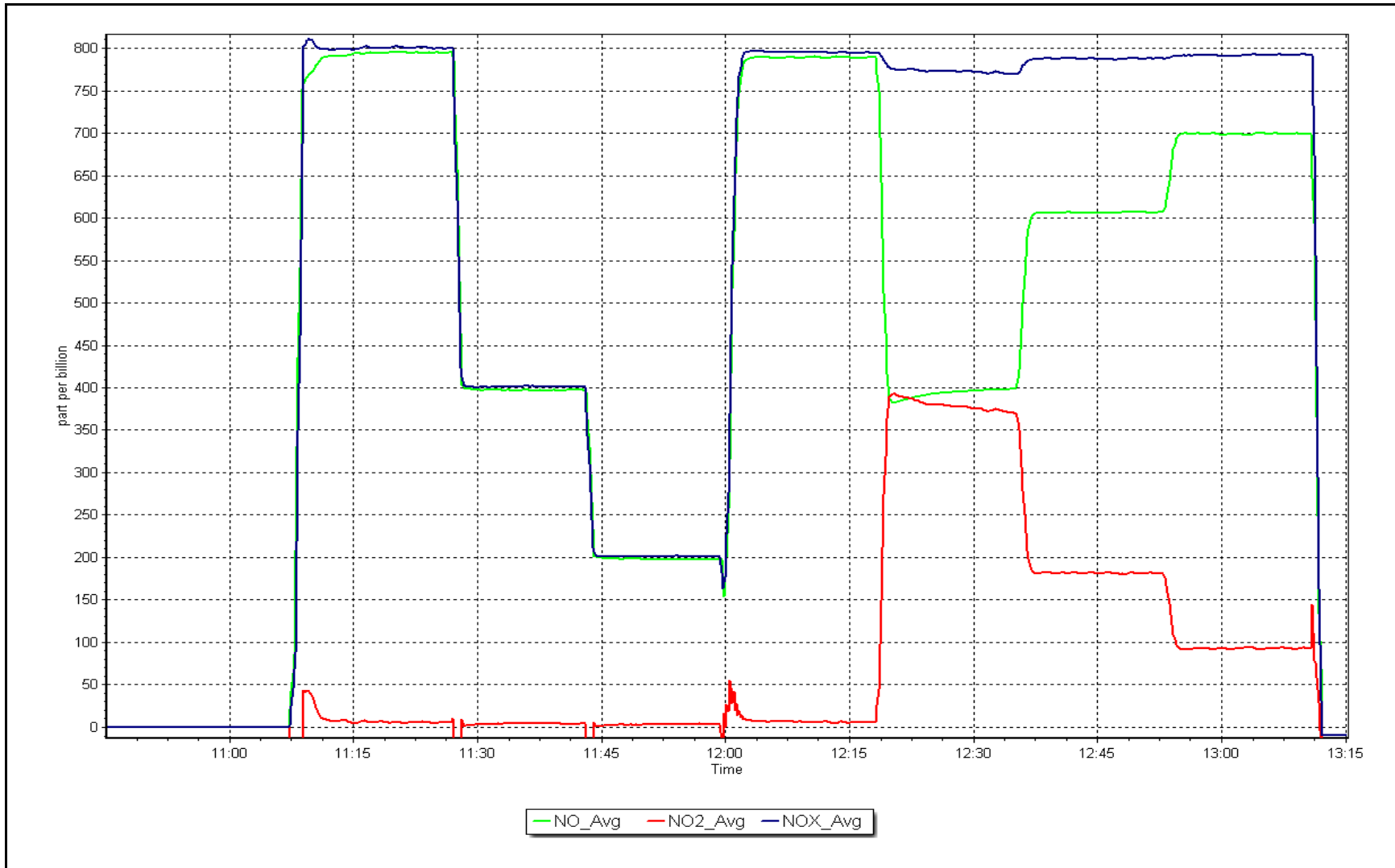
Notes: Removal was done to do further troubleshooting at the shop.

Calibration Performed By: Jan Castro

NO_x Calibration Plot

Date: February 17, 2026

Location: Monday Creek





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Monday Creek
 Station number: AMS 33
 Calibration Date: February 19, 2026
 Last Cal Date: NA
 Start time (MST): 11:00
 End time (MST): 14:34
 Reason: Install

Calibration Standards

NO Gas Cylinder #: CC755290
 NOX Cal Gas Conc: 48.90 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 48.90 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701H
 Cal Gas Expiry Date: March 11, 2031
 NO Cal Gas Conc: 48.70 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 48.70 ppm
 NO gas Diff:
 Serial Number: 3253
 Serial Number: 832

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero))	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero))
As found zero									<i>Limit = 0.90 - 1.10</i>	<i>Limit = 0.90 - 1.10</i>
AF High point										
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = NA	ppb	NO = NA	ppb					*Percent Change	NO _x = NA
Baseline Corr 1st pt	NO _x = NA	ppb	NO = NA	ppb					*Percent Change	NO = NA
Baseline Corr 2nd pt	NO _x = NA	ppb	NO = NA	ppb						
Baseline Corr 3rd pt	NO _x = NA	ppb	NO = NA	ppb						
						* = > +/-5% change initiates investigation				
						<u>As Found Statistics</u>				
						As found	NO _x r ² :	Nx SI:	Nx Int:	
						As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero))	Converter Efficiency
As Found GPT zero					<i>Limit = 0.90 - 1.10</i>	<i>Limit = 96-104%</i>
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1170050148

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:		0.999609
NO _x Cal Offset:		0.426969
NO Cal Slope:		1.003071
NO Cal Offset:		-0.573221
NO ₂ Cal Slope:		1.000550
NO ₂ Cal Offset:		-1.006359

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.675		NO bkgnd or offset:	1.3	
NOX coeff or slope:	0.985		NOX bkgnd or offset:	1.4	
NO2 coeff or slope:	1.000		Reaction cell Press:	159.6	

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	----	----
High point	4918	82.1	802.9	799.6	3.3	803.1	802.0	1.1	0.9998	0.9971
Mid point	4959	41.1	401.9	400.3	1.6	401.6	400.1	1.5	1.0009	1.0005
Low point	4980	20.5	200.5	199.7	0.8	201.8	199.5	2.3	0.9934	1.0008
As left zero	5000	0.0	0.0	0.0	0.0	0.1	0.1	0.0	----	----
As left span	4918	82.1	802.9	423.3	379.6	799.0	423.3	375.7	1.0049	1.0000
Average Correction Factor									0.9980	0.9994

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.0	----	----
High GPT point	797.3	415.1	385.5	385.1	1.0010	99.9%
Mid GPT point	797.3	605.5	195.1	194.0	1.0056	99.4%
Low GPT point	797.3	701.4	99.2	97.0	1.0225	97.8%
Average Correction Factor					1.0097	99.0%

Notes: Install calibrations. Sample inlet filter was changed before calibrator zero. Adjusted zero and span. Used 2nd NO point because of drift.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

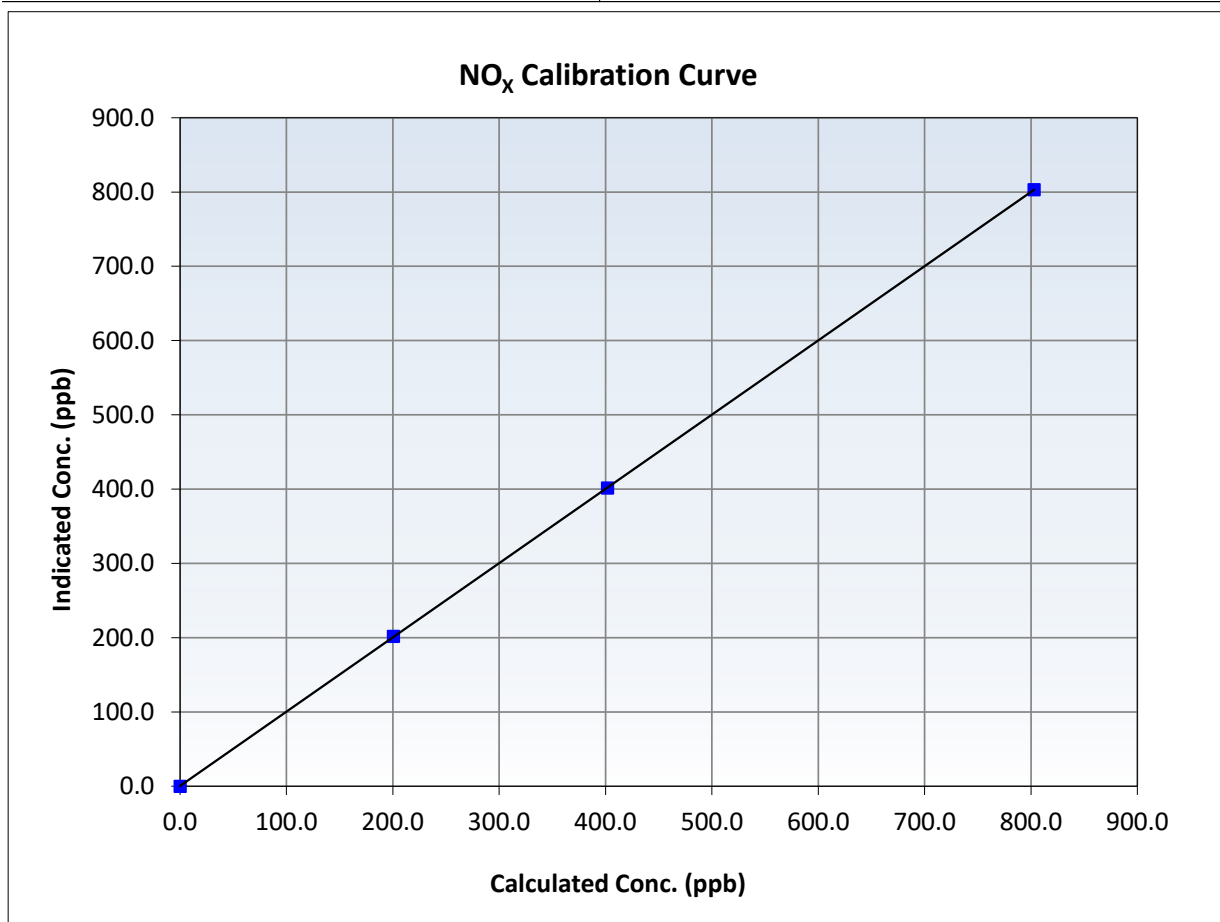
NO_x Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	NA
Station Name:	Monday Creek	Station Number:	AMS 33
Start Time (MST):	11:00	End Time (MST):	14:34
Analyzer make:	Thermo 42i	Analyzer serial #:	1170050148

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999996	<i>≥0.995</i>
802.9	803.1	0.9998	Slope	0.999609	<i>0.90 - 1.10</i>
401.9	401.6	1.0009	Intercept	0.426969	<i>+/-20</i>
200.5	201.8	0.9934			





Wood Buffalo Environmental Association

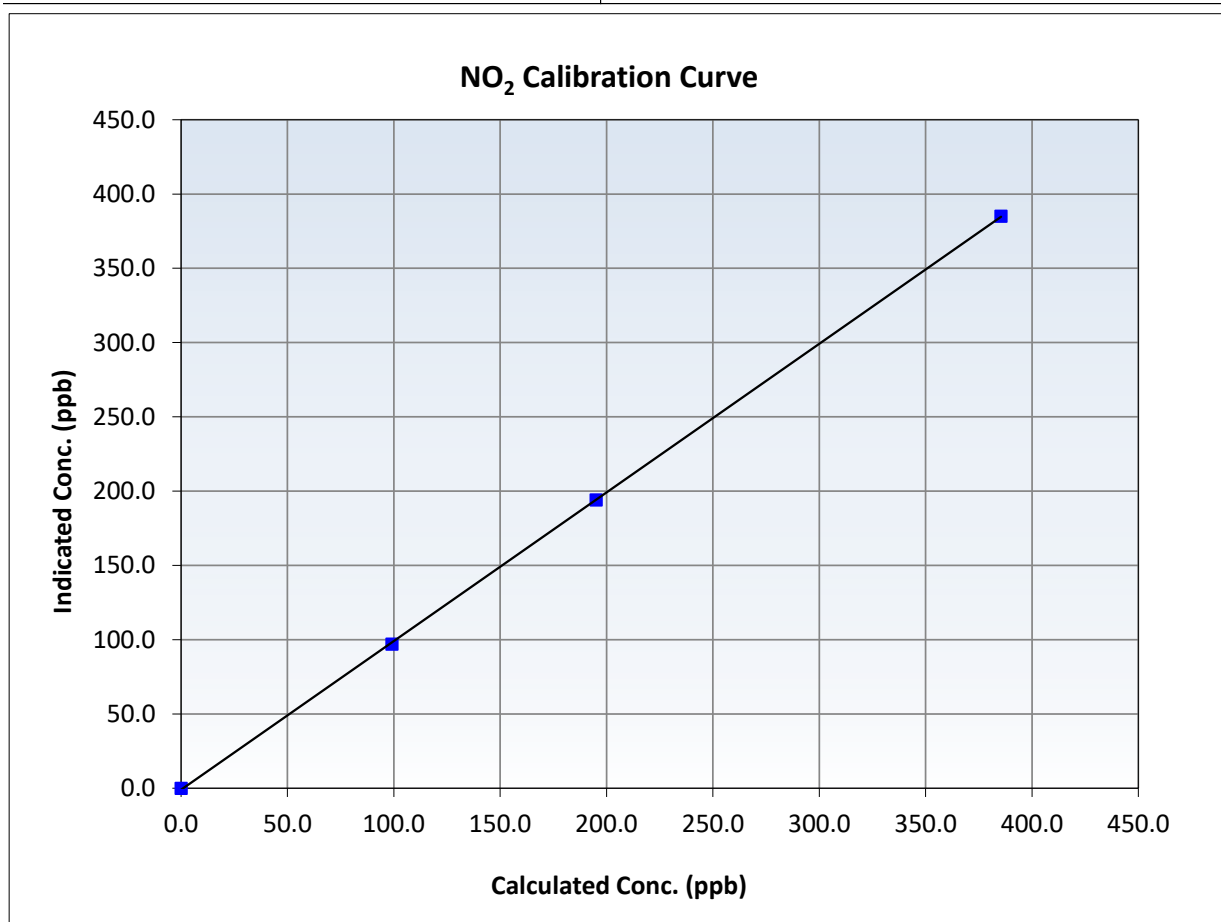
NO₂ Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	NA
Station Name:	Monday Creek	Station Number:	AMS 33
Start Time (MST):	11:00	End Time (MST):	14:34
Analyzer make:	Thermo 42i	Analyzer serial #:	1170050148

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999966	≥0.995
385.5	385.1	1.0010	Slope	1.000550	0.90 - 1.10
195.1	194.0	1.0056	Intercept	-1.006359	+/-20
99.2	97.0	1.0225			





Wood Buffalo Environmental Association

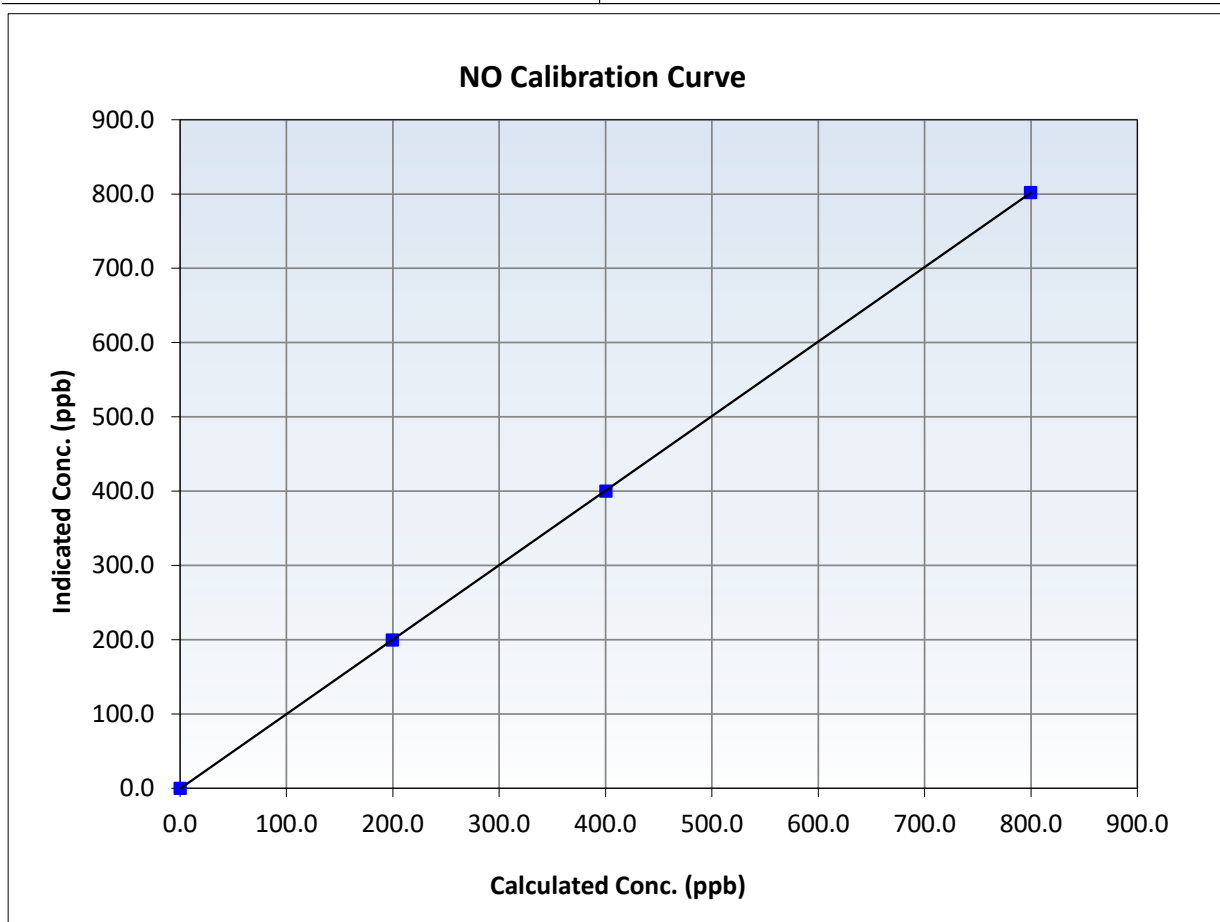
NO Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	NA
Station Name:	Monday Creek	Station Number:	AMS 33
Start Time (MST):	11:00	End Time (MST):	14:34
Analyzer make:	Thermo 42i	Analyzer serial #:	1170050148

Calibration Data

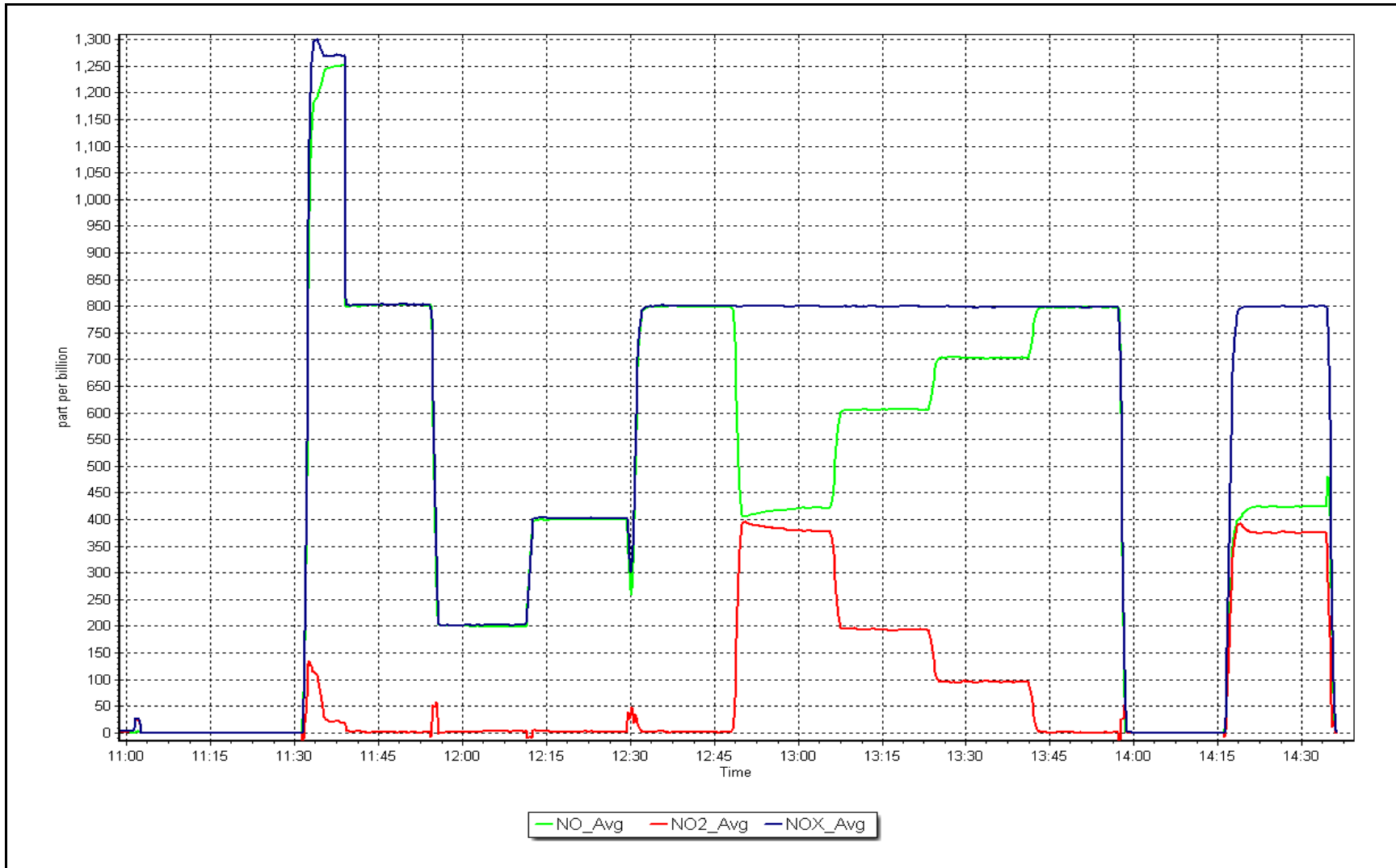
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999996	<i>≥0.995</i>
799.6	802.0	0.9971	Slope	1.003071	<i>0.90 - 1.10</i>
400.3	400.1	1.0005	Intercept	-0.573221	<i>+/-20</i>
199.7	199.5	1.0008			



NO_x Calibration Plot

Date: February 19, 2026

Location: Monday Creek





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

**AMS501
LEISMER
FEBRUARY 2026**

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Leismer	Station number:	AMS 501
Calibration Date:	February 11, 2026	Last Cal Date:	January 22, 2026
Start time (MST):	10:38	End time (MST):	13:32
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.52	ppm	Cal Gas Exp Date: December 29, 2028
Cal Gas Cylinder #:	CC274266		
Removed Cal Gas Conc:	50.52	ppm	Rem Gas Exp Date: NA
Removed Gas Cyl #:	NA		Diff between cyl:
Calibrator Model:	Teledyne API T700		Serial Number: 2659
Zero Air Gen Model:	Teledyne API T701		Serial Number: 4427

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number:	1160290011
Analyzer Range:	0-1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.991946	1.000501	Backgd or Offset:	21.4	22.2
Calibration intercept:	0.464132	0.444011	Coeff or Slope:	0.994	1.000

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.3	----
As found High point	4921	79.2	800.2	793.5	1.009
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	793.2	Previous response	794.2	*% change	-0.1%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		<i>* = > +/-5% change initiates investigation</i>	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4921	79.2	800.2	801.2	0.999
Mid point	4960	39.6	400.2	399.9	1.001
Low point	4980	19.8	200.1	201.8	0.991
As left zero	5000	0.0	0.0	-0.2	----
As left span	4921	79.2	800.2	802.6	0.997
Average Correction Factor:					0.997

Notes: Inlet filter changed after as founds. Span and Zero adjusted.

Calibration Performed By: Jason Brooks



Wood Buffalo Environmental Association

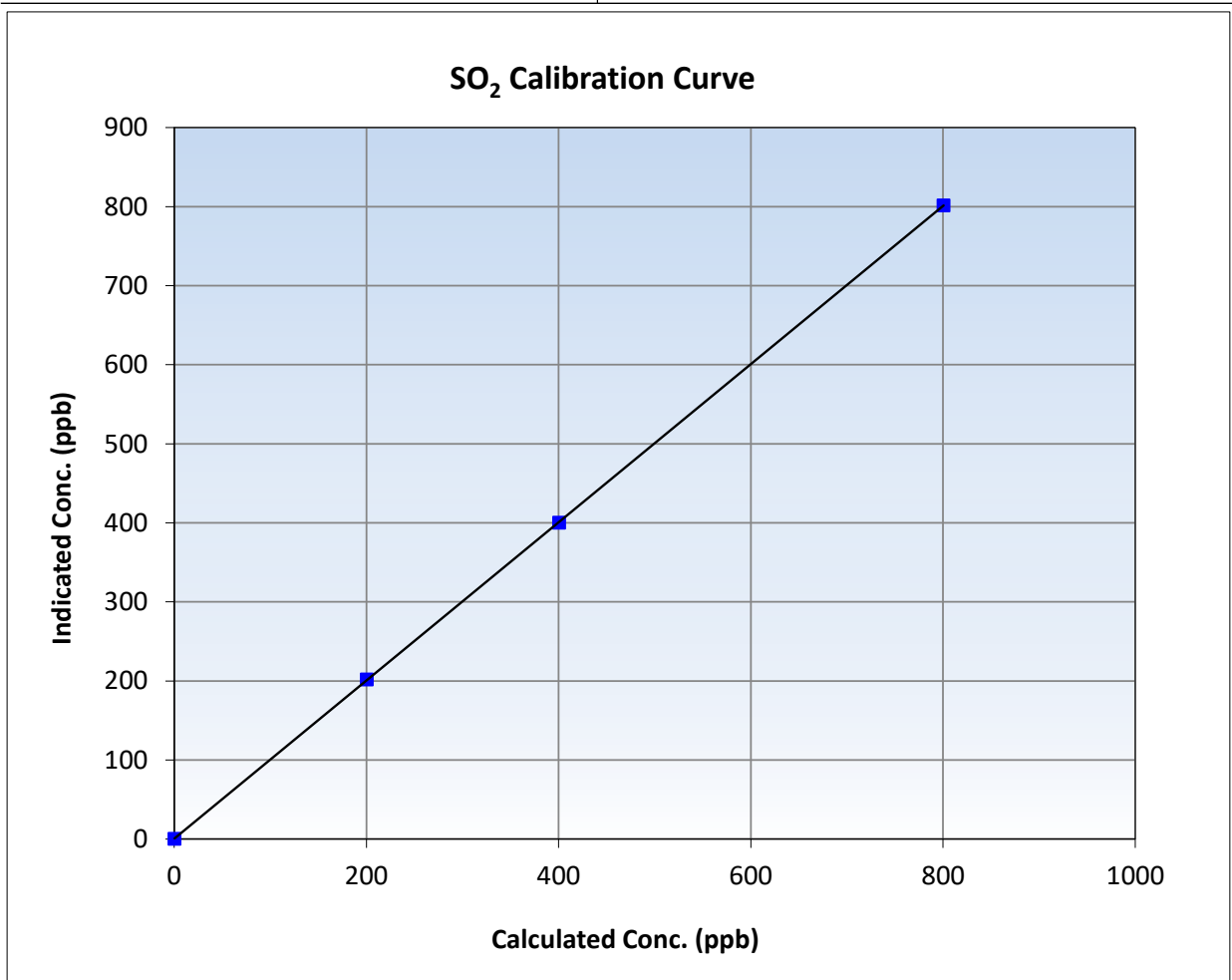
SO₂ Calibration Summary

Station Information

Calibration Date:	February 11, 2026	Previous Calibration:	January 22, 2026
Station Name:	Leismer	Station Number:	AMS 501
Start Time (MST):	10:38	End Time (MST):	13:32
Analyzer make:	Thermo 43i	Analyzer serial #:	1160290011

Calibration Data

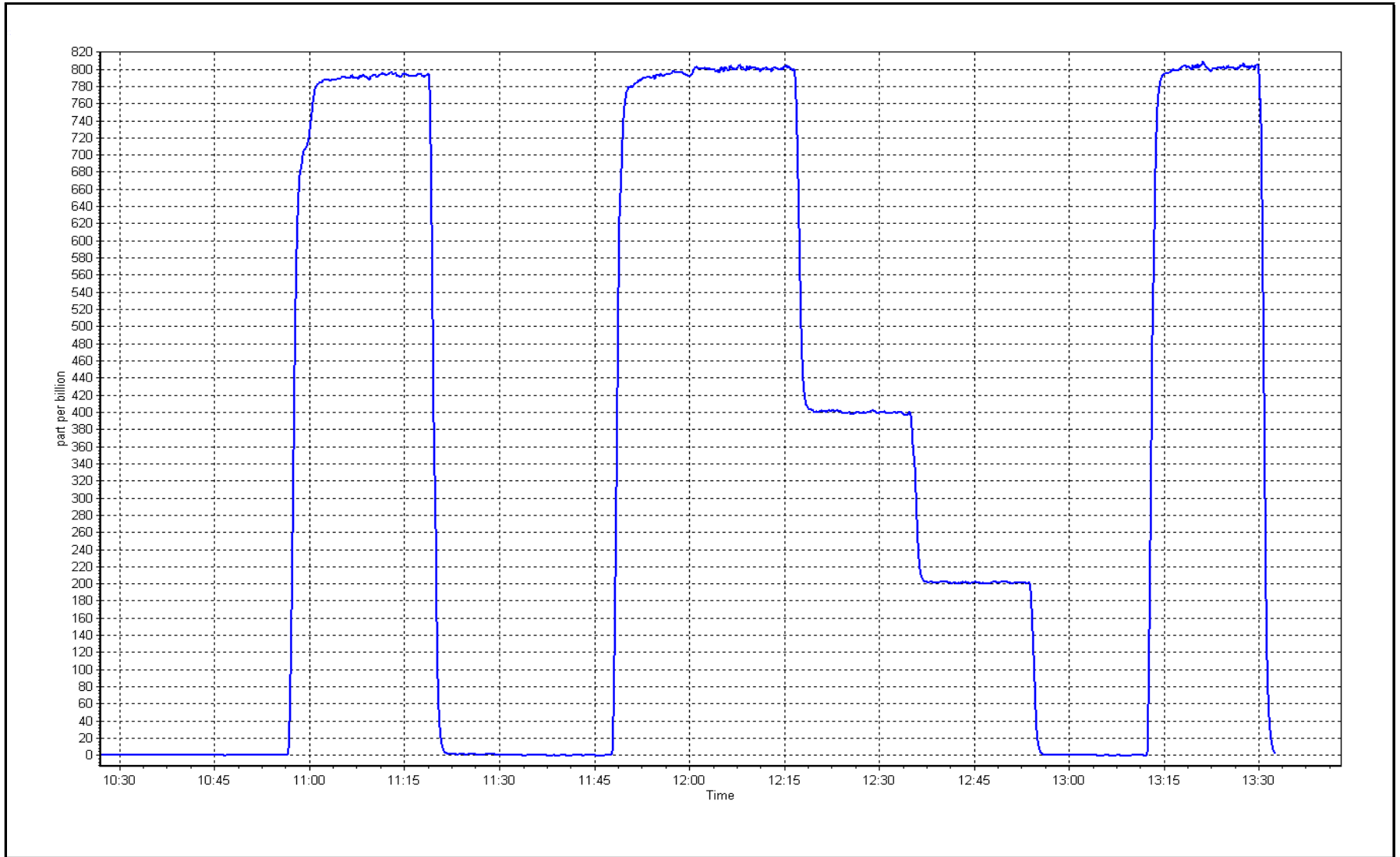
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	0.0	----	Correlation Coefficient	0.999993	≥0.995
800.2	801.2	0.9988	Slope	1.000501	0.90 - 1.10
400.2	399.9	1.0006	Intercept	0.444011	+/-30
200.1	201.8	0.9914			



SO2 Calibration Plot

Date: February 11, 2026

Location: Leismer





Wood Buffalo Environmental Association

H2S Calibration Report

Station Information

Station Name:	Leismer	Station number:	AMS 501
Calibration Date:	February 10, 2026	Last Cal Date:	January 21, 2026
Start time (MST):	11:32	End time (MST):	15:16
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	4.89	ppm	Cal Gas Exp Date:	September 5, 2027
Cal Gas Cylinder #:	CC737971			
Removed Cal Gas Conc:	4.89	ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA		Diff between cyl:	
Calibrator Make/Model:	Teledyne 750		Serial Number:	282
ZAG Make/Model:	Teledyne 751H		Serial Number:	321

Analyzer Information

Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1180540020
Converter make:	Global G150	Converter serial #:	2022-218
Analyzer Range	0 - 100 ppb	Converter Temp:	325.0 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.984597	0.996736	Backgd or Offset:	3.80	3.80
Calibration intercept:	0.200390	0.000668	Coeff or Slope:	1.214	1.214

H2S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.1	----
As found High point	4918	81.8	80.0	79.7	1.003
As found Mid point	4959	40.9	40.0	39.8	1.003
As found Low point	4980	20.4	19.9	19.8	1.002
New cylinder response					
Baseline Corr As found:	79.8	Prev response:	78.97	*% change:	1.0%
Baseline Corr 2nd AF pt:	39.9	AF Slope:	0.997451	AF Intercept:	-0.099374
Baseline Corr 3rd AF pt:	19.9	AF Correlation:	1.000000	<i>* = > +/-5% change initiates investigation</i>	

H2S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4918	81.8	80.0	79.8	1.003
Mid point	4959	40.9	40.0	39.7	1.008
Low point	4980	20.4	19.9	20.0	0.997
As left zero	5000	0.0	0.0	0.0	----
As left span	4918	81.8	80.0	80.1	0.999
SO2 Scrubber Check	4921	79.2	800.2	0.0	----
Date of last scrubber change:	20-Nov-25			Ave Corr Factor	1.003
Date of last converter efficiency test:					

Notes: Inlet filter changed after as founds, no adjustment made.

Calibration Performed By: Jason Brooks



Wood Buffalo Environmental Association

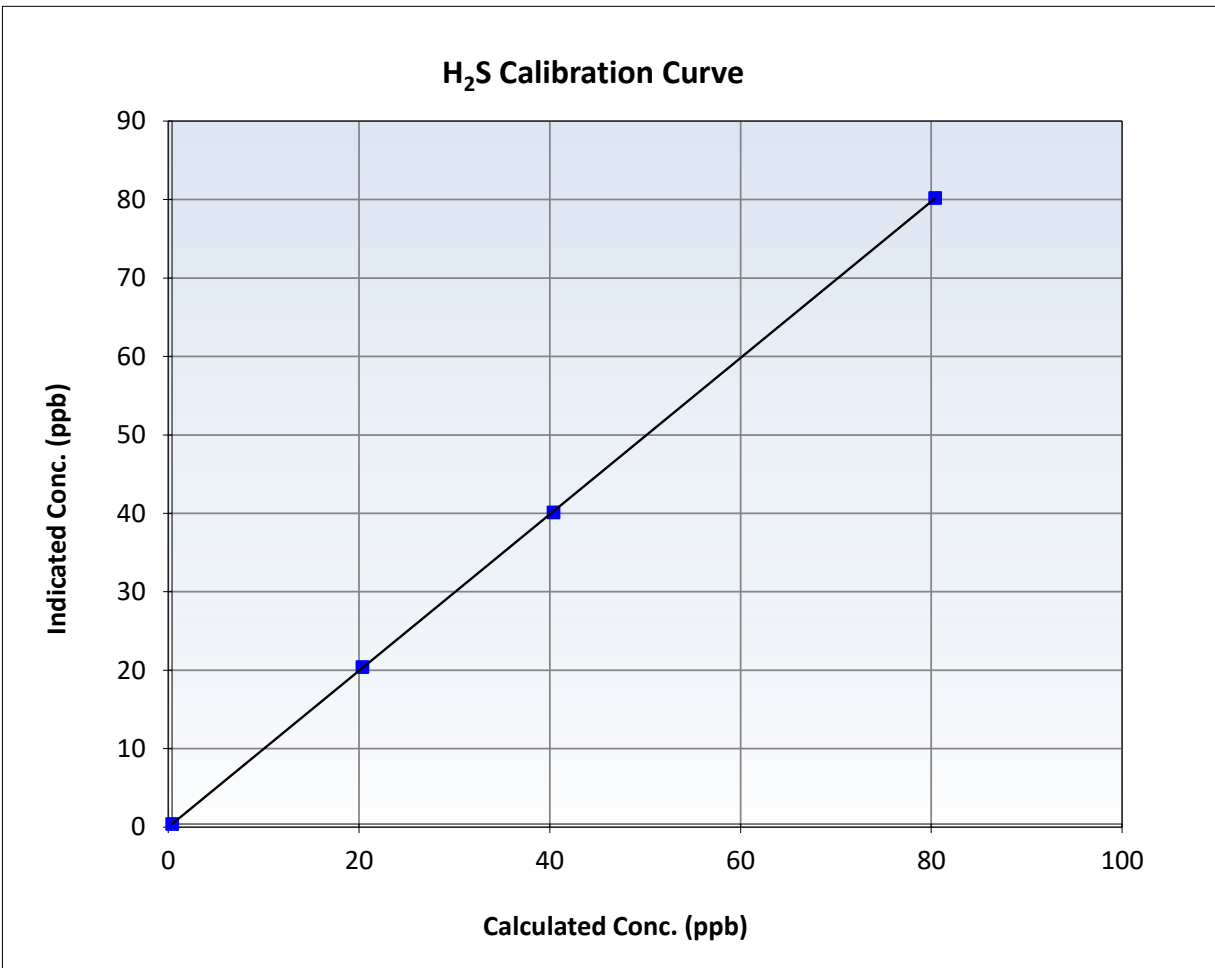
H2S Calibration Summary

Station Information

Calibration Date:	February 10, 2026	Previous Calibration:	January 21, 2026
Station Name:	Leismer	Station Number:	AMS 501
Start Time (MST):	11:32	End Time (MST):	15:16
Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1180540020

Calibration Data

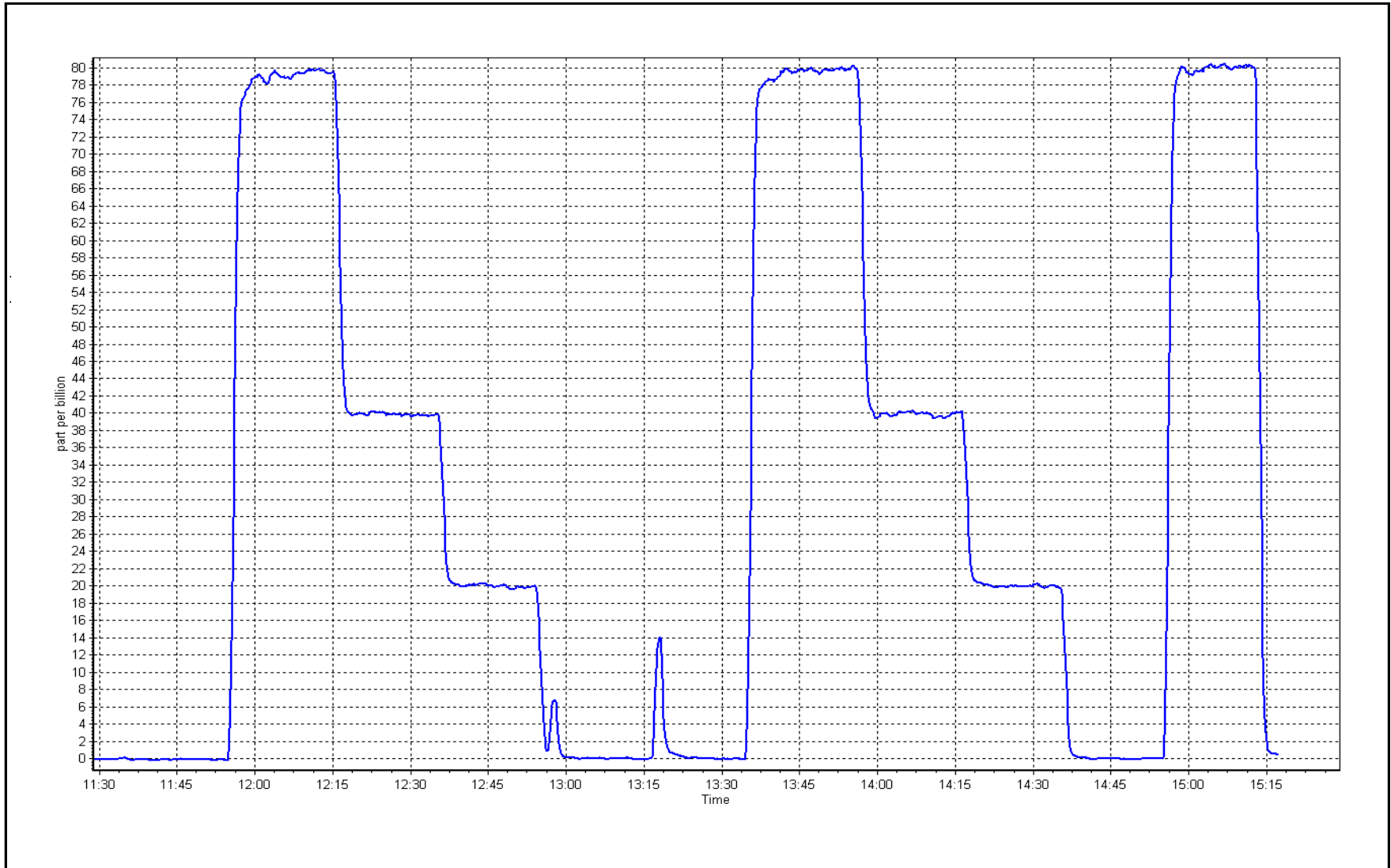
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999987	≥ 0.995
80.0	79.8	1.0026	Slope	0.996736	$0.90 - 1.10$
40.0	39.7	1.0076	Intercept	0.000668	± 3
19.9	20.0	0.9975			



H2S Calibration Plot

Date: February 10, 2026

Location: Leismer





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Leismer
 Station number: AMS 501
 Calibration Date: February 26, 2026
 Last Cal Date: January 9, 2026
 Start time (MST): 11:14
 End time (MST): 15:40
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0022706
 NOX Cal Gas Conc: 60.20 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 60.20 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API 701
 Cal Gas Expiry Date: January 5, 2032
 NO Cal Gas Conc: 60.10 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 60.10 ppm
 NO gas Diff:
 Serial Number: 3252
 Serial Number: 4427

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOx concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOx concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	Baseline Adjusted NOx Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	0.5	0.2	0.3	----	----
AF High point	4933	66.6	801.9	800.6	1.3	809.4	805.9	3.8	0.9914	0.9937
AF Mid point										
AF Low point										
New cyl resp										

Previous Response NO_x = 801.1 ppb NO = 799.5 ppb * = > +/-5% change initiates investigation *Percent Change NO_x = 1.0%
 Baseline Corr 1st pt NO_x = 808.9 ppb NO = 805.7 ppb As Found Statistics *Percent Change NO = 0.8%
 Baseline Corr 2nd pt NO_x = NA ppb NO = NA ppb As found NO_x r²: Nx SI: Nx Int:
 Baseline Corr 3rd pt NO_x = NA ppb NO = NA ppb As found NO r²: NO SI: NO Int:
 As found NO₂ r²: NO2 SI: NO2 Int:

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	Baseline Adjusted NO2 Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



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NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42iQ
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 12400232071

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.996532	0.998171
NO _x Cal Offset:	1.912197	1.012459
NO Cal Slope:	0.997606	0.998891
NO Cal Offset:	0.791513	-0.108364
NO ₂ Cal Slope:	0.979727	0.992963
NO ₂ Cal Offset:	-0.209417	0.645795

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.988	0.980	NO bkgnd or offset:	0.3	0.7
NOX coeff or slope:	0.991	0.992	NOX bkgnd or offset:	0.5	1.0
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	147.1	142.9

Dilution Calibration Data

Set Point	Dilution flow rate (scm)	Source gas flow rate (scm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	----	----
High point	4933	66.6	801.9	800.6	1.3	801.2	800.0	1.0	1.0009	1.0007
Mid point	4967	33.3	400.9	400.2	0.7	401.0	398.6	2.4	0.9998	1.0041
Low point	4983	16.6	199.9	199.5	0.3	202.0	199.8	2.2	0.9895	0.9987
As left zero	5000	0.0	0.0	0.0	0.0	0.2	0.0	0.2	----	----
As left span	4933	66.6	801.9	379.7	422.2	789.3	379.7	409.6	1.0160	1.0000
Average Correction Factor									0.9967	1.0012

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.0	----	----
High GPT point	793.7	375.8	419.2	416.6	1.0063	99.4%
Mid GPT point	793.7	575.3	219.7	219.1	1.0029	99.7%
Low GPT point	793.7	683.7	111.3	111.9	0.9949	100.5%
Average Correction Factor					1.0014	99.9%

Notes: Sample inlet filter was changed after as founds. Adjusted zero and span. Used 2nd NO point because of drift.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

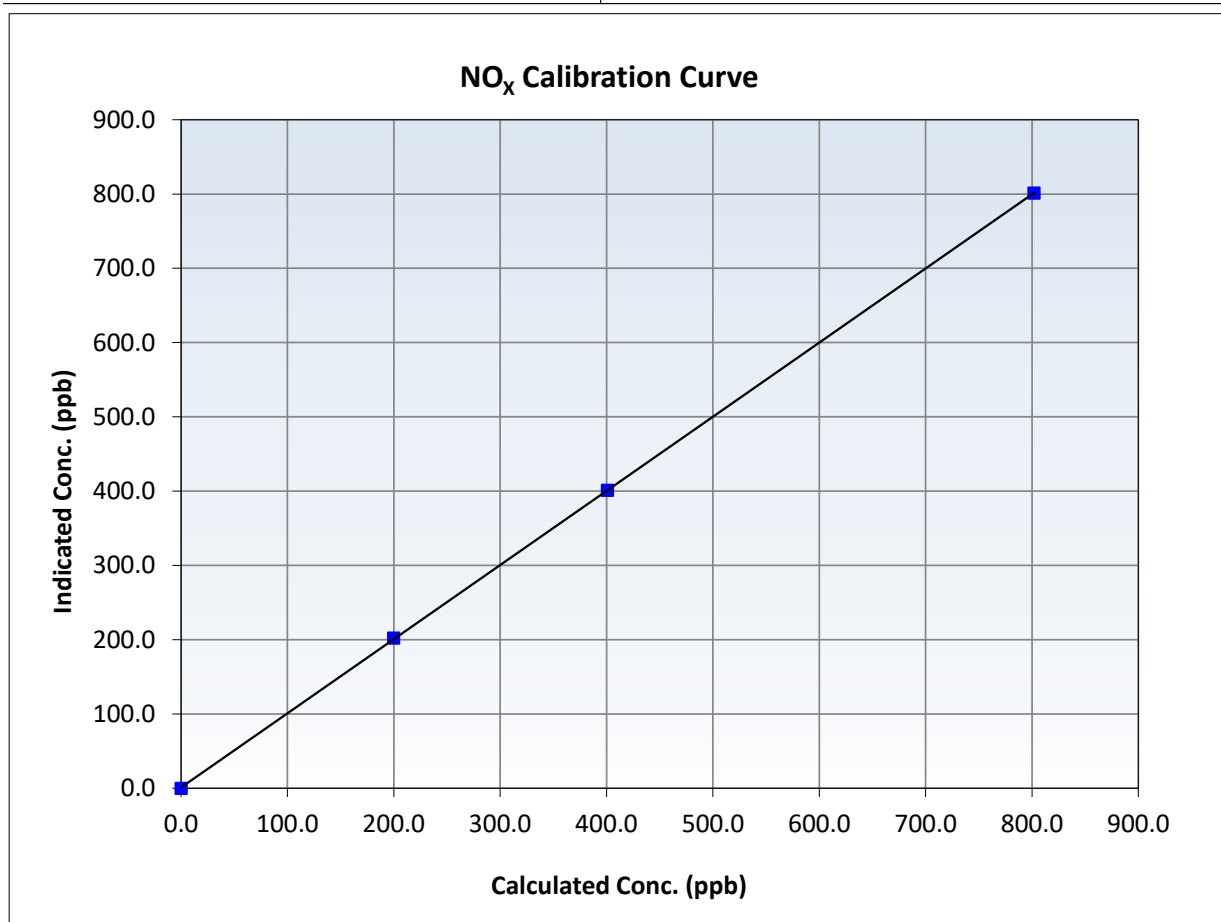
NO_x Calibration Summary

Station Information

Calibration Date:	February 26, 2026	Previous Calibration:	January 9, 2026
Station Name:	Leismer	Station Number:	AMS 501
Start Time (MST):	11:14	End Time (MST):	15:40
Analyzer make:	Thermo 42iQ	Analyzer serial #:	12400232071

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999991	≥0.995
801.9	801.2	1.0009	Slope	0.998171	0.90 - 1.10
400.9	401.0	0.9998	Intercept	1.012459	+/-20
199.9	202.0	0.9895			





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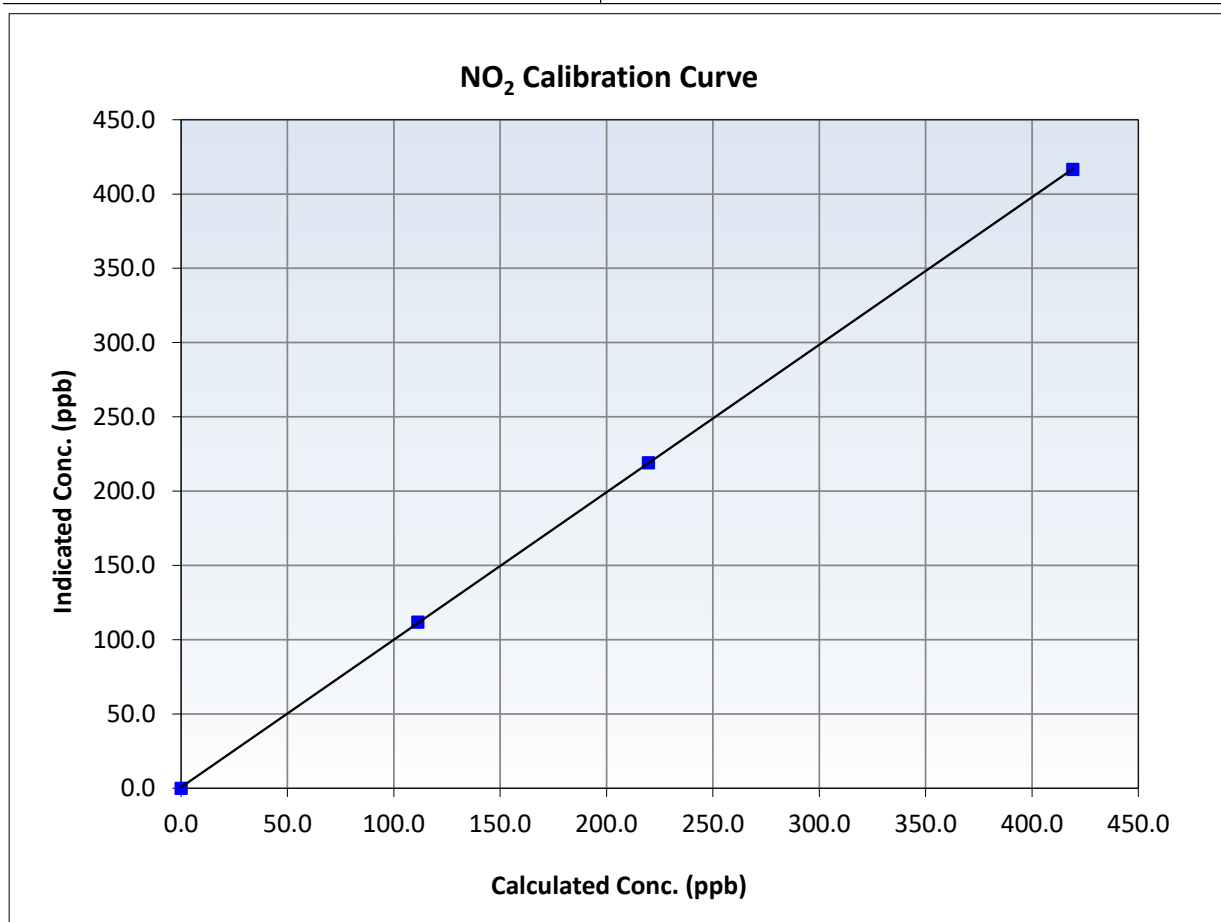
NO₂ Calibration Summary

Station Information

Calibration Date:	February 26, 2026	Previous Calibration:	January 9, 2026
Station Name:	Leismer	Station Number:	AMS 501
Start Time (MST):	11:14	End Time (MST):	15:40
Analyzer make:	Thermo 42iQ	Analyzer serial #:	12400232071

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999988	<i>≥0.995</i>
419.2	416.6	1.0063	Slope	0.992963	<i>0.90 - 1.10</i>
219.7	219.1	1.0029	Intercept	0.645795	<i>+/-20</i>
111.3	111.9	0.9949			





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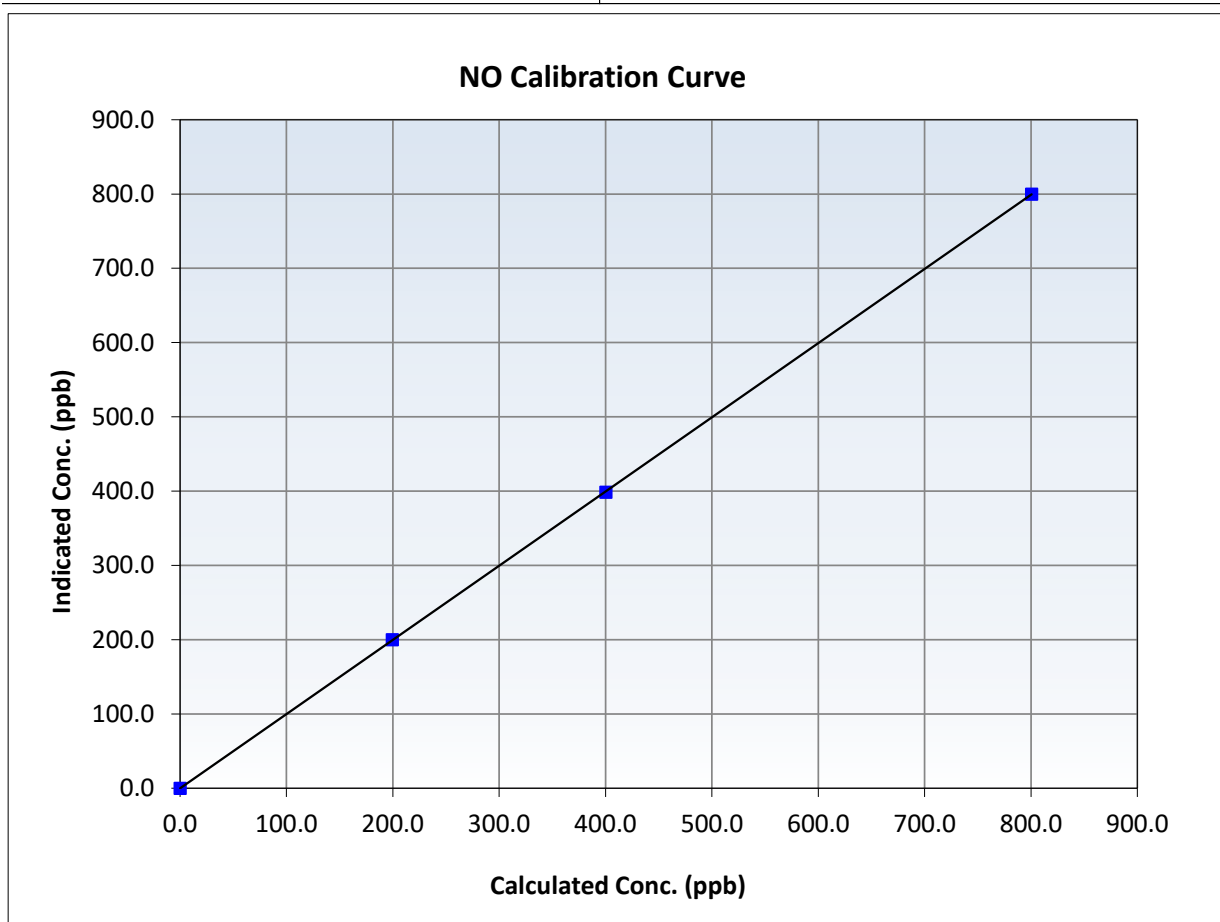
NO Calibration Summary

Station Information

Calibration Date:	February 26, 2026	Previous Calibration:	January 9, 2026
Station Name:	Leismer	Station Number:	AMS 501
Start Time (MST):	11:14	End Time (MST):	15:40
Analyzer make:	Thermo 42iQ	Analyzer serial #:	12400232071

Calibration Data

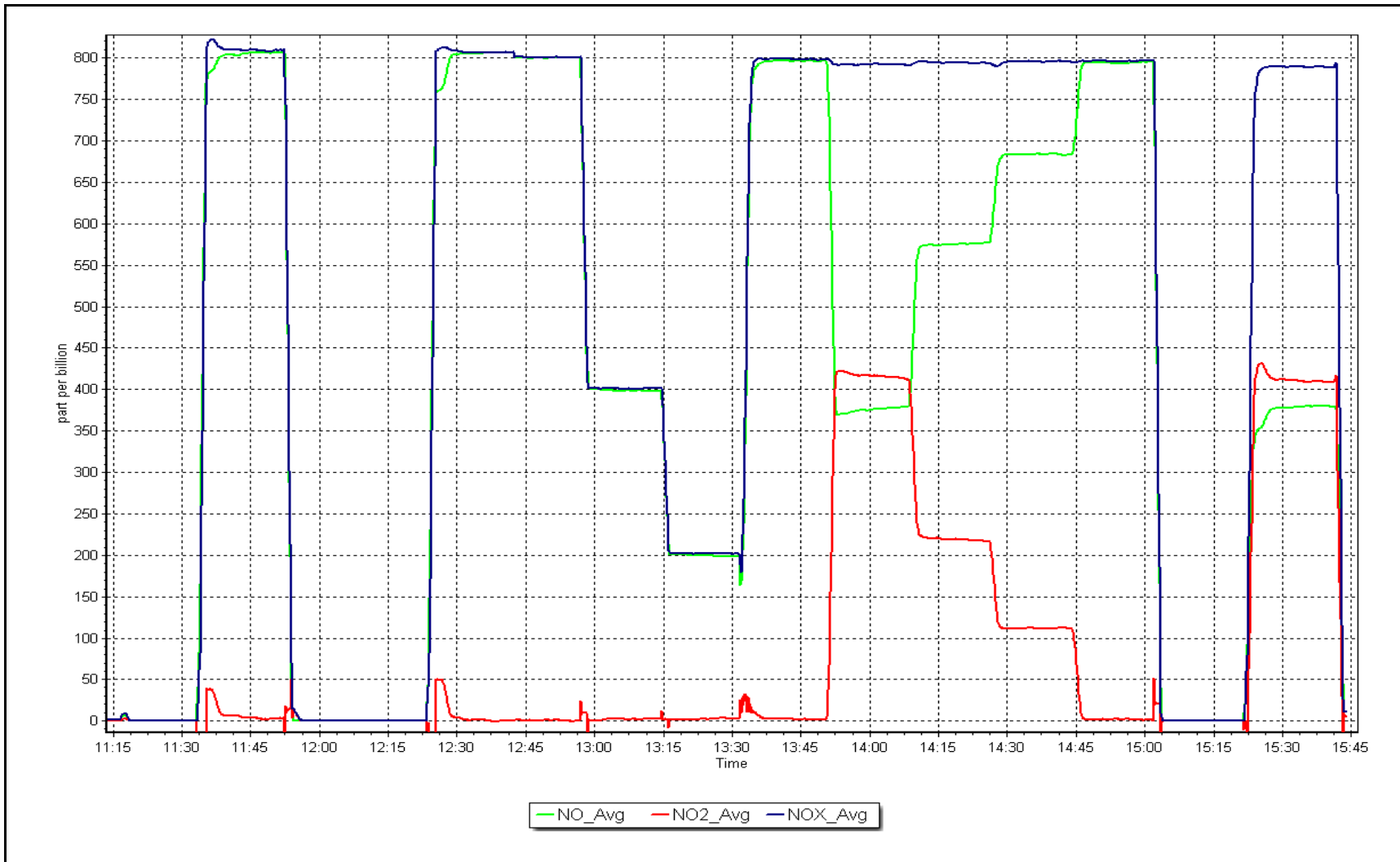
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999995	<i>≥0.995</i>
800.6	800.0	1.0007	Slope	0.998891	<i>0.90 - 1.10</i>
400.2	398.6	1.0041	Intercept	-0.108364	<i>+/-20</i>
199.5	199.8	0.9987			



NO_x Calibration Plot

Date: February 26, 2026

Location: Leismer





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS505 SAWBONES BAY FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Sawbones Bay	Station number: AMS 505
Calibration Date:	February 25, 2026	Last Cal Date: January 26, 2026
Start time (MST):	10:54	End time (MST): 13:59
Reason:	Routine	

Calibration Standards

Cal Gas Concentration:	50.05 ppm	Cal Gas Exp Date: April 9, 2033
Cal Gas Cylinder #:	EB0063977	
Removed Cal Gas Conc:	50.05 ppm	Rem Gas Exp Date:
Removed Gas Cyl #:	EB0063977	Diff between cyl:
Calibrator Model:	Teledyne API T700	Serial Number: 3807
Zero Air Gen Model:	Teledyne API T701H	Serial Number: 690

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number: 710321323
Analyzer Range:	0 - 1000 ppb	

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.001748	1.001391	Backgd or Offset:	23.0	23.3
Calibration intercept:	-0.795524	-0.095541	Coeff or Slope:	1.117	1.145

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	-0.6	----
As found High point	4920	79.8	798.8	779.4	1.024
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	780.0	Previous response	799.4	*% change	-2.5%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.2	----
High point	4920	79.8	798.8	800.0	0.999
Mid point	4960	39.9	399.4	399.7	0.999
Low point	4980	20.0	200.2	200.1	1.000
As left zero	5000	0.0	0.0	0.3	----
As left span	4920	79.8	798.8	800.0	0.999
Average Correction Factor:					0.999

Notes: Changed inlet filter after as founds. Adjusted zero and span.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

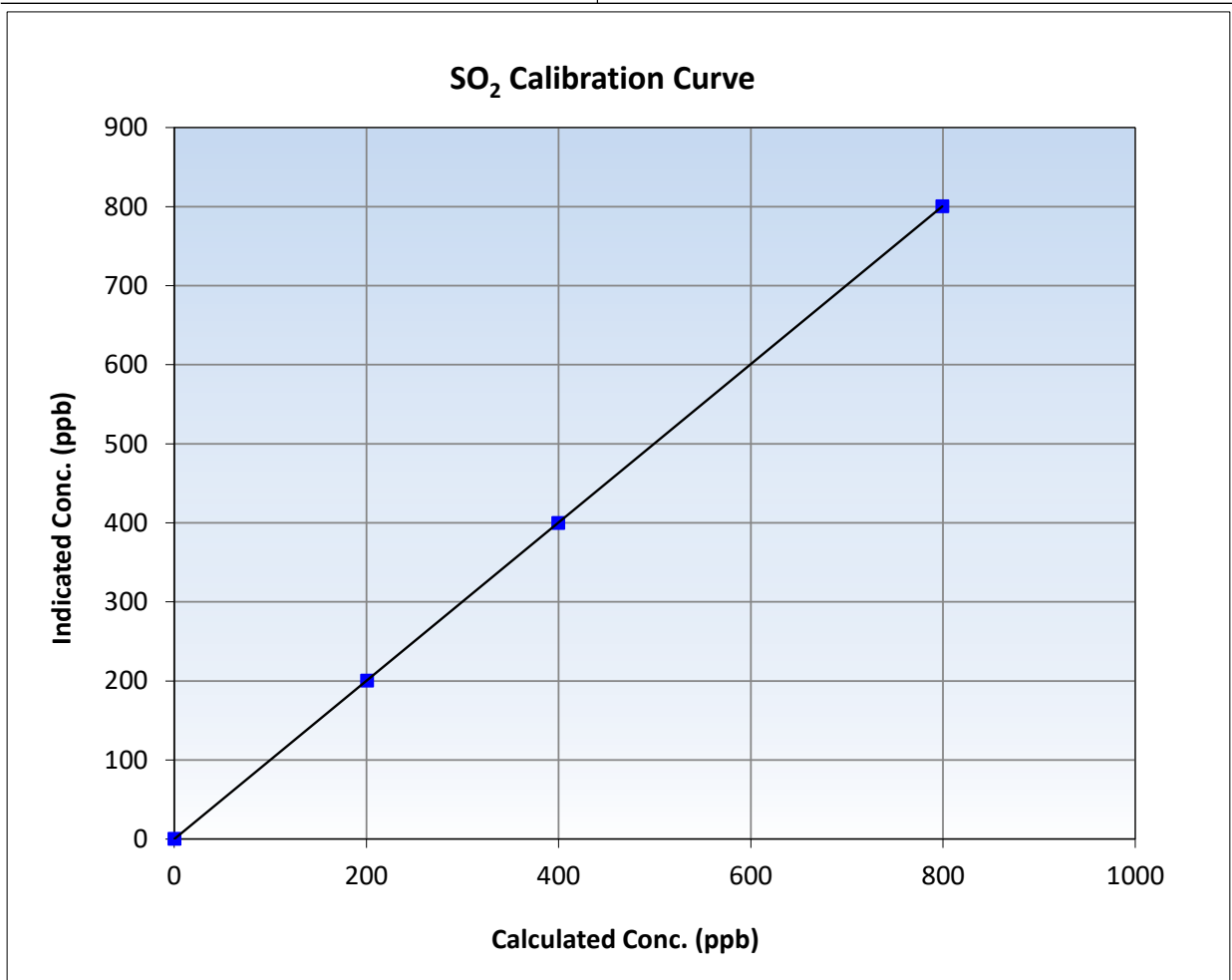
SO₂ Calibration Summary

Station Information

Calibration Date:	February 25, 2026	Previous Calibration:	January 26, 2026
Station Name:	Sawbones Bay	Station Number:	AMS 505
Start Time (MST):	10:54	End Time (MST):	13:59
Analyzer make:	Thermo 43i	Analyzer serial #:	710321323

Calibration Data

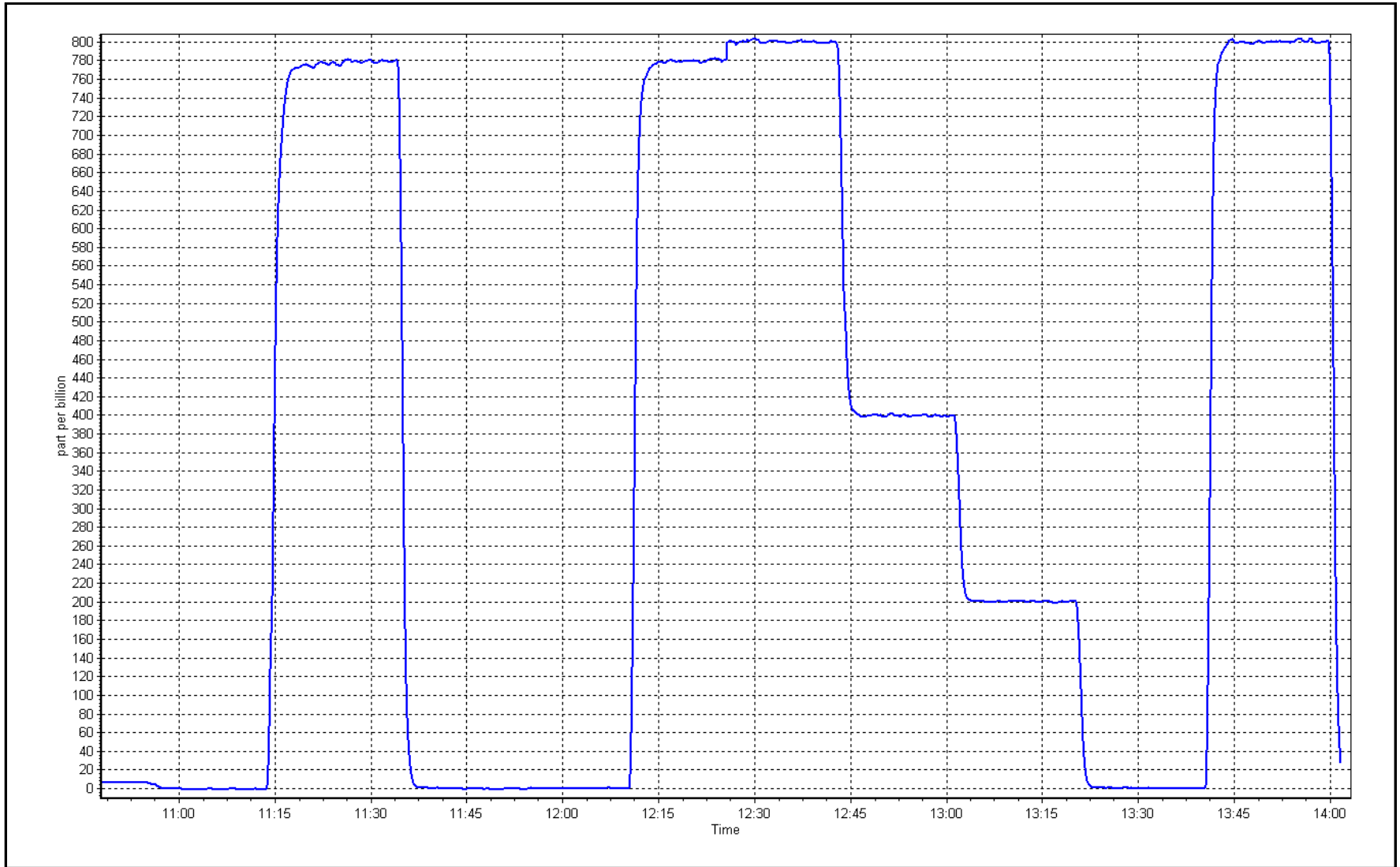
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.2	----	Correlation Coefficient	0.999999	≥0.995
798.8	800.0	0.9985	Slope	1.001391	0.90 - 1.10
399.4	399.7	0.9993	Intercept	-0.095541	+/-30
200.2	200.1	1.0005			



SO2 Calibration Plot

Date: February 25, 2026

Location: Sawbones Bay





Wood Buffalo Environmental Association

H2S Calibration Report

Station Information

Station Name:	Sawbones Bay	Station number:	AMS 505
Calibration Date:	February 24, 2026	Last Cal Date:	January 28, 2026
Start time (MST):	10:32	End time (MST):	14:45
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	5.26 ppm	Cal Gas Exp Date:	March 19, 2027
Cal Gas Cylinder #:	DT0034141		
Removed Cal Gas Conc:	5.26 ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	NA	Diff between cyl:	
Calibrator Make/Model:	Teledyne API T700	Serial Number:	3807
ZAG Make/Model:	Teledyne API T701H	Serial Number:	690

Analyzer Information

Analyzer make:	Thermo 43iQTL	Analyzer serial #:	12113311965
Converter make:	Global 150	Converter serial #:	2022-224
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.997742	0.996660	Backgd or Offset:	0.920	1.230
Calibration intercept:	0.300000	0.016800	Coeff or Slope:	1.105	1.109

H2S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.1	----
As found High point	4925	76.0	79.9	79.0	1.013
As found Mid point	4962	38.0	40.0	39.7	1.009
As found Low point	4981	19.0	20.0	20.1	0.999
New cylinder response					
Baseline Corr As found:	78.9	Prev response:	80.06	*% change:	-1.5%
Baseline Corr 2nd AF pt:	39.6	AF Slope:	0.986080	AF Intercept:	0.236837
Baseline Corr 3rd AF pt:	20.0	AF Correlation:	0.999986	<i>* = > +/-5% change initiates investigation</i>	

H2S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	-0.1	----
High point	4925	76.0	79.9	79.6	1.004
Mid point	4962	38.0	40.0	40.0	0.999
Low point	4981	19.0	20.0	20.0	0.999
As left zero	5000	0.0	0.0	0.1	----
As left span	4925	76.0	79.9	79.2	1.009
SO2 Scrubber Check	4920	79.8	798.0	0.0	----
Date of last scrubber change:				Ave Corr Factor	1.001
Date of last converter efficiency test:					

Notes: Changed inlet filter after as founds. SO2 scrubber check done and passed. Adjusted zero and span.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

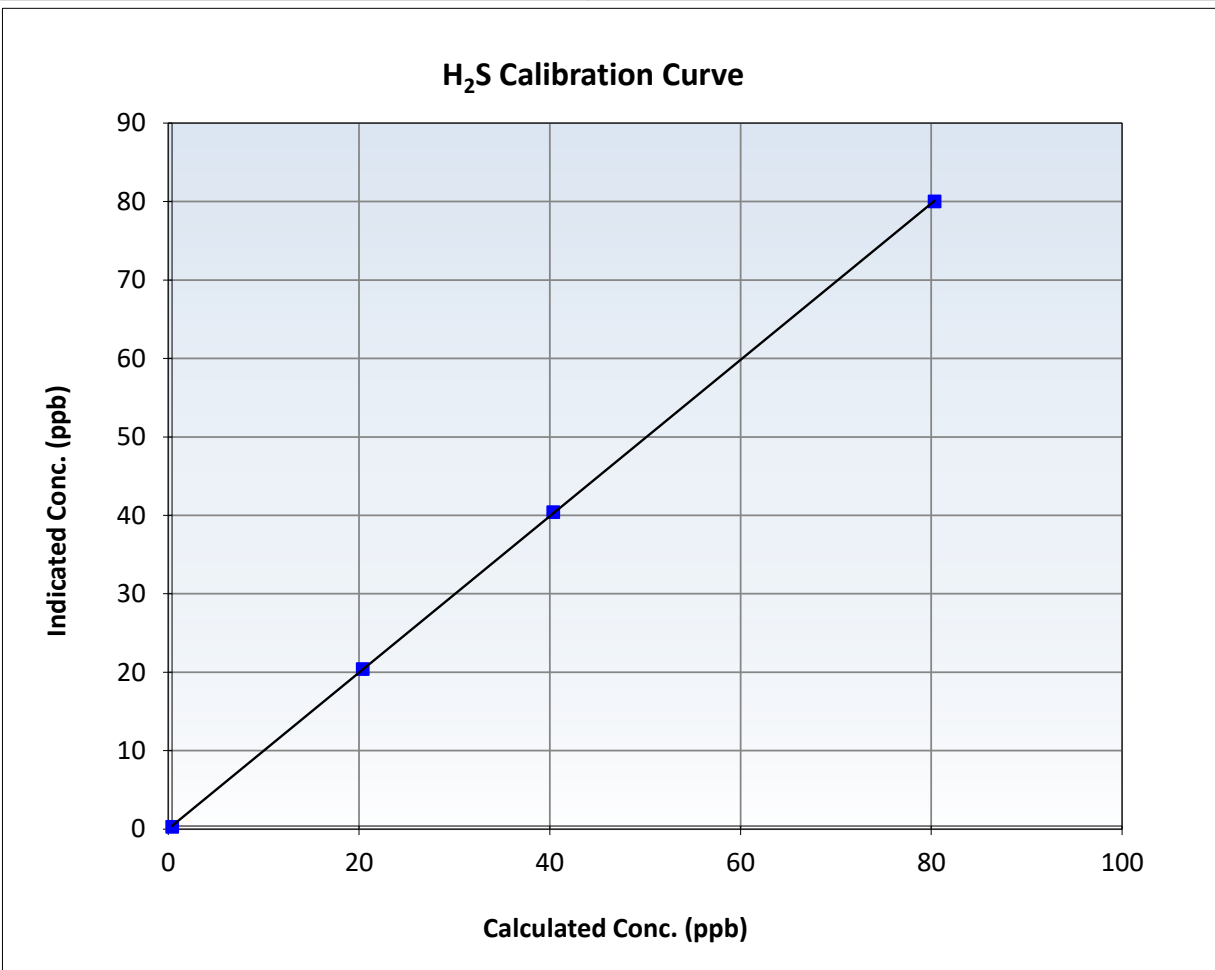
H2S Calibration Summary

Station Information

Calibration Date:	February 24, 2026	Previous Calibration:	January 28, 2026
Station Name:	Sawbones Bay	Station Number:	AMS 505
Start Time (MST):	10:32	End Time (MST):	14:45
Analyzer make:	Thermo 43iQTL	Analyzer serial #:	12113311965

Calibration Data

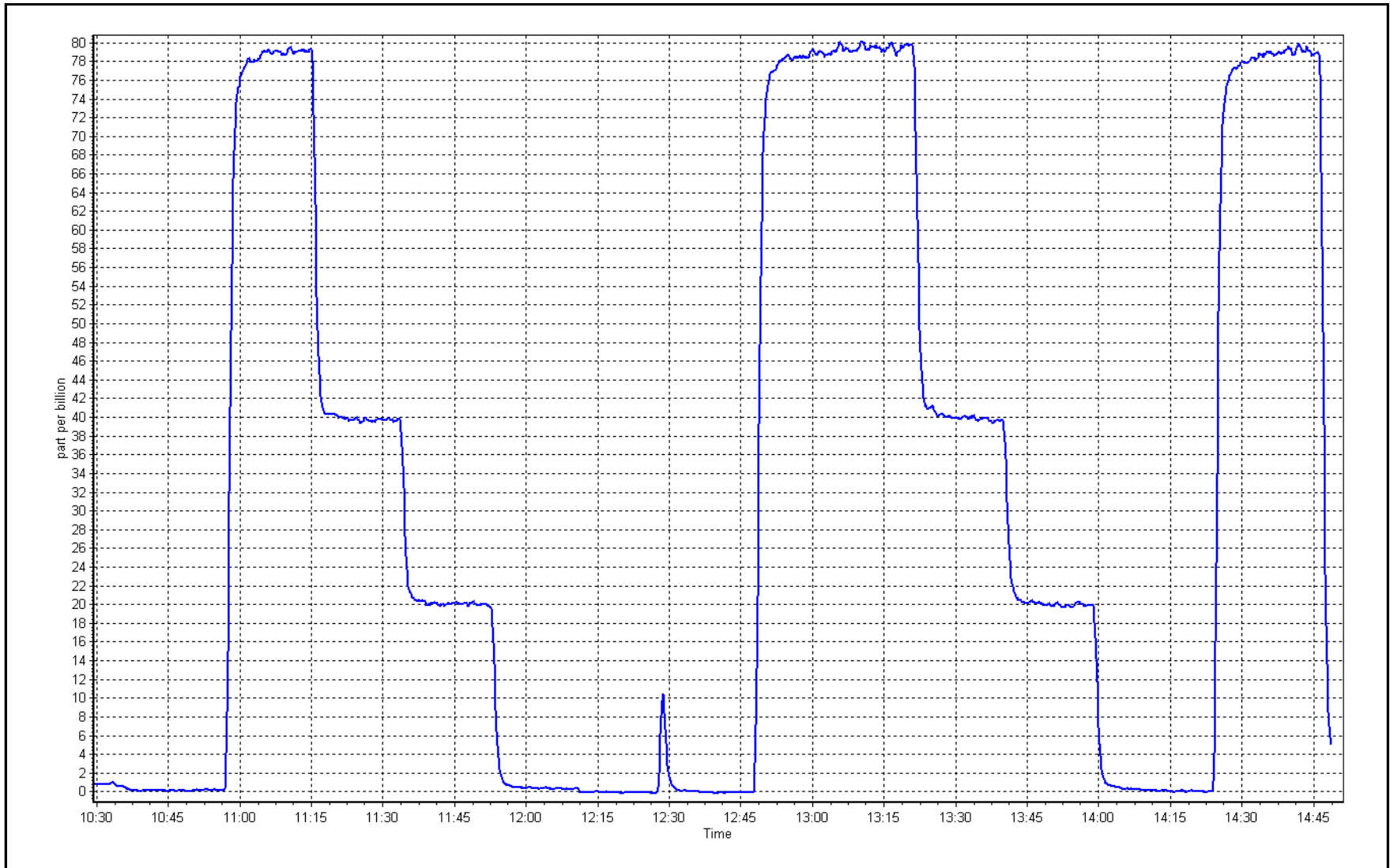
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	-0.1	----	Correlation Coefficient	0.999987	≥ 0.995
79.9	79.6	1.0042	Slope	0.996660	$0.90 - 1.10$
40.0	40.0	0.9994	Intercept	0.016800	± 3
20.0	20.0	0.9994			



H2S Calibration Plot

Date: February 24, 2026

Location: Sawbones Bay





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Sawbones Bay
 Station number: AMS 505
 Calibration Date: February 23, 2026
 Last Cal Date: January 27, 2026
 Start time (MST): 10:40
 End time (MST): 14:56
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0009786
 NOX Cal Gas Conc: 60.10 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 60.10 ppm
 NOX gas Diff:
 Calibrator Model: API T700
 ZAG make/model: API T701H
 Cal Gas Expiry Date: January 5, 2032
 NO Cal Gas Conc: 60.00 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 60.00 ppm
 NO gas Diff:
 Serial Number: 3807
 Serial Number: 690

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.5	-0.4	-0.1	----	----
AF High point	4933	66.7	801.8	800.4	1.3	791.0	789.8	1.2	1.0130	1.0130
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 802.2 ppb		NO = 801.4 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -1.4%	
Baseline Corr 1st pt	NO _x = 791.5 ppb		NO = 790.2 ppb			<u>As Found Statistics</u>		*Percent Change	NO = -1.4%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: API T200
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 4259

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	1.001061	1.000319
NO _x Cal Offset:	-0.389650	-0.229570
NO Cal Slope:	1.002931	1.000545
NO Cal Offset:	-1.410058	-0.849887
NO ₂ Cal Slope:	0.995217	1.002141
NO ₂ Cal Offset:	-0.289619	0.513233

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.945	0.957	NO bkgnd or offset:	0.9	0.3
NOX coeff or slope:	0.943	0.957	NOX bkgnd or offset:	1.4	0.6
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	3.7	3.7

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	----	----
High point	4933	66.7	801.8	800.4	1.3	801.6	800.2	1.3	1.0002	1.0003
Mid point	4967	33.3	400.2	399.6	0.7	401.0	399.2	1.7	0.9981	1.0009
Low point	4983	16.7	200.7	200.4	0.3	199.7	198.5	1.2	1.0052	1.0096
As left zero	5000	0.0	0.0	0.0	0.0	0.2	0.1	0.0	----	----
As left span	4933	66.7	801.8	399.6	402.2	798.9	399.6	399.3	1.0036	1.0000
Average Correction Factor									1.0012	1.0036

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	0.1	----	----
High GPT point	800.0	394.0	407.3	408.5	0.9971	100.3%
Mid GPT point	800.0	622.9	178.4	179.7	0.9930	100.7%
Low GPT point	800.0	712.4	88.9	89.9	0.9893	101.1%
Average Correction Factor					0.9931	100.7%

Notes: Changed inlet filter after as founds. Adjusted zero and span.

Calibration Performed By: Jan Castro



Wood Buffalo Environmental Association

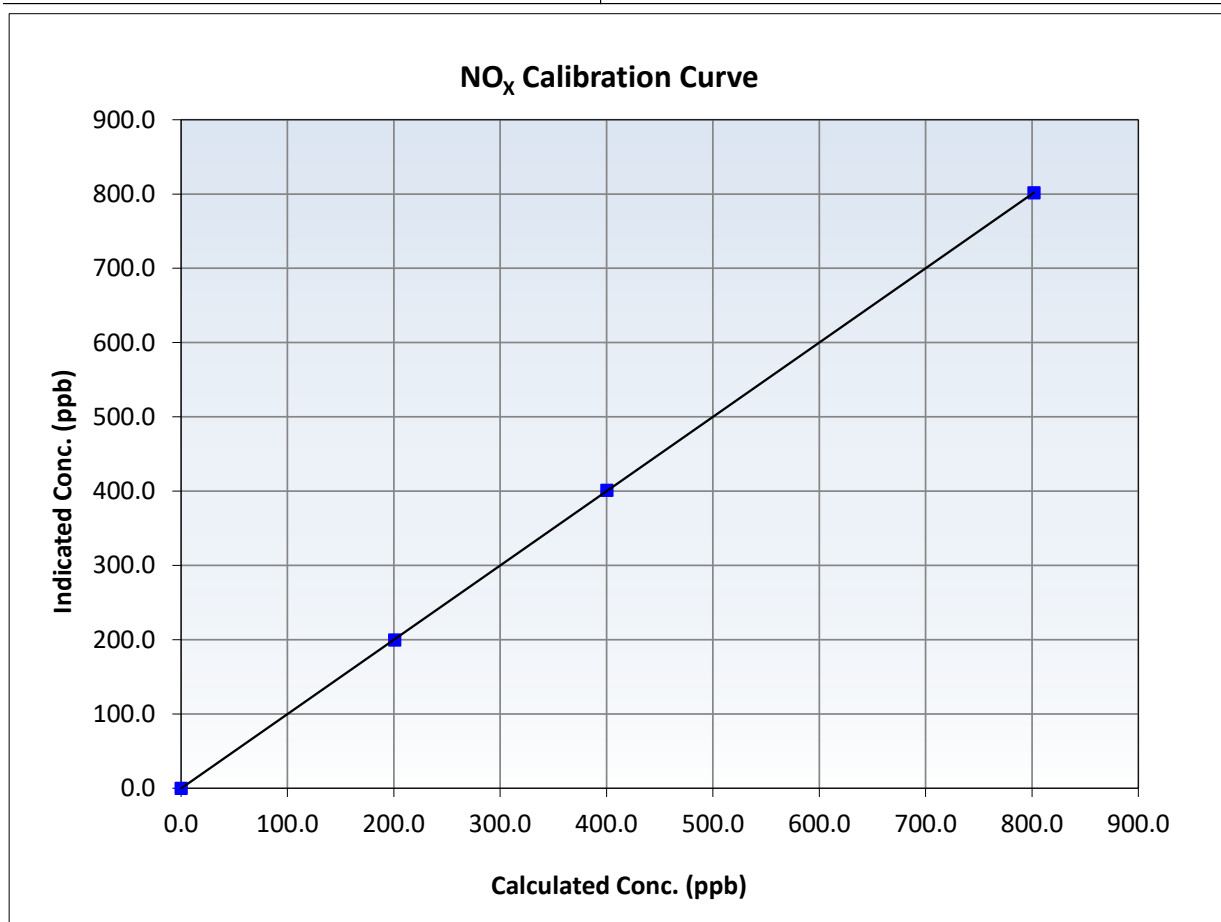
NO_x Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 27, 2026
Station Name:	Sawbones Bay	Station Number:	AMS 505
Start Time (MST):	10:40	End Time (MST):	14:56
Analyzer make:	API T200	Analyzer serial #:	4259

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999995	<i>≥0.995</i>
801.8	801.6	1.0002	Slope	1.000319	<i>0.90 - 1.10</i>
400.2	401.0	0.9981	Intercept	-0.229570	<i>+/-20</i>
200.7	199.7	1.0052			





Wood Buffalo Environmental Association

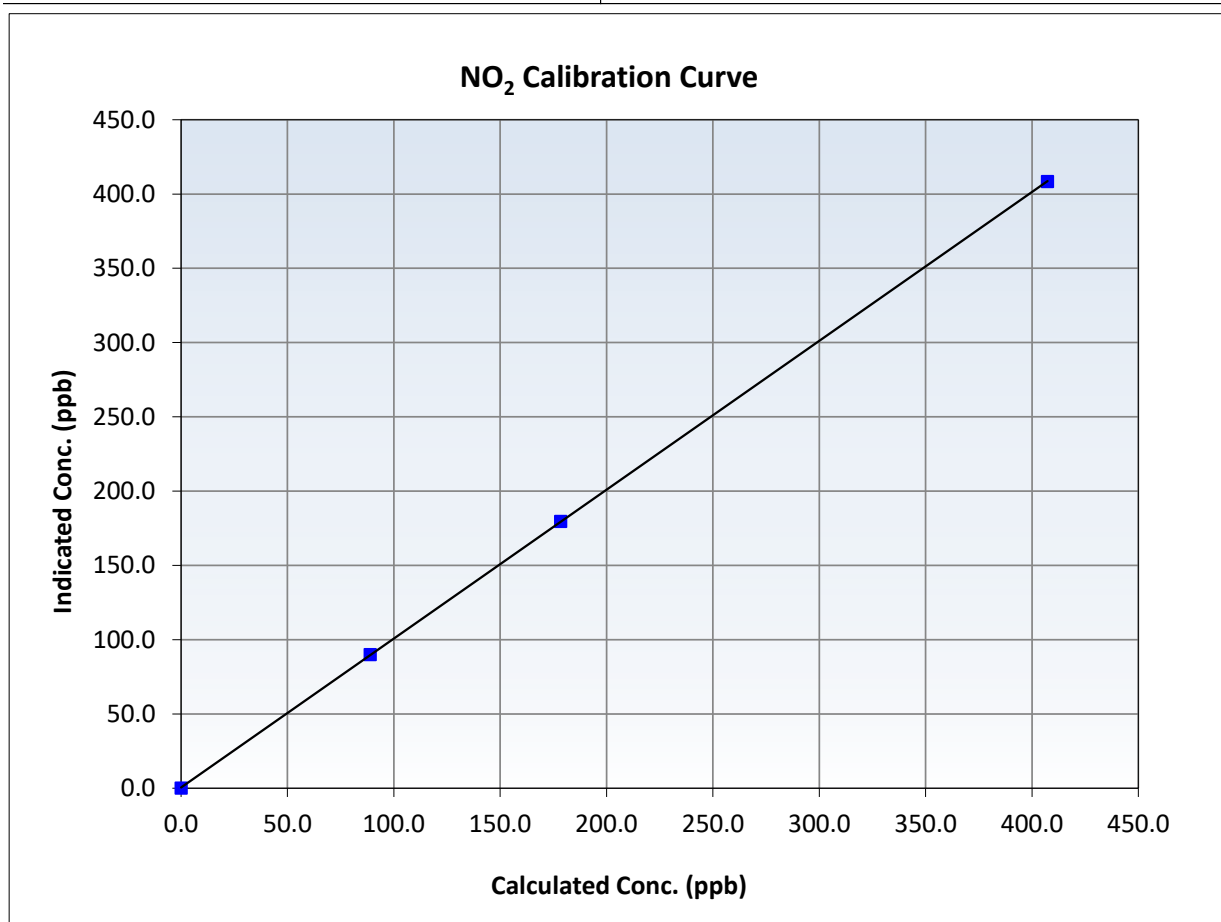
NO₂ Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 27, 2026
Station Name:	Sawbones Bay	Station Number:	AMS 505
Start Time (MST):	10:40	End Time (MST):	14:56
Analyzer make:	API T200	Analyzer serial #:	4259

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.1	----	Correlation Coefficient	0.999995	<i>≥0.995</i>
407.3	408.5	0.9971	Slope	1.002141	<i>0.90 - 1.10</i>
178.4	179.7	0.9930	Intercept	0.513233	<i>+/-20</i>
88.9	89.9	0.9893			





Wood Buffalo Environmental Association

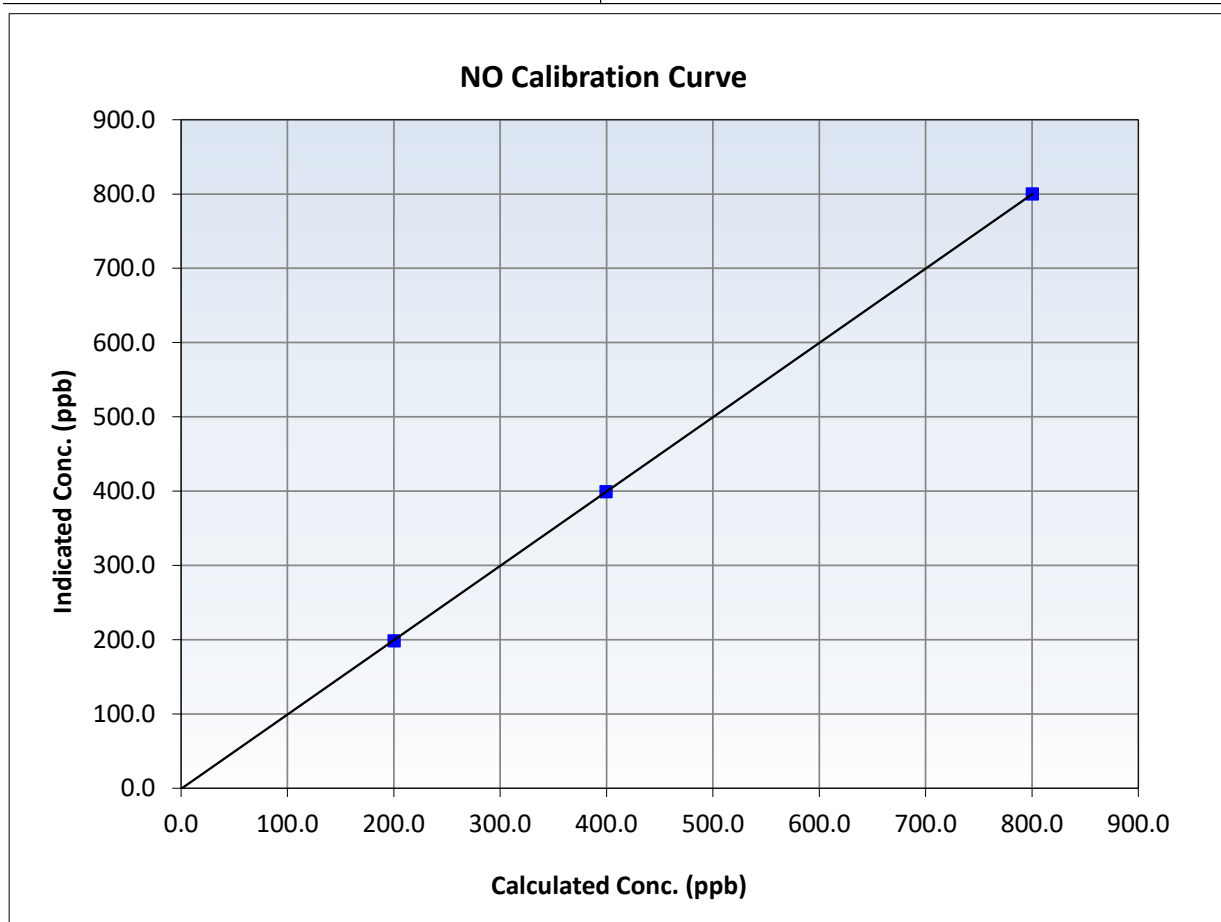
NO Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 27, 2026
Station Name:	Sawbones Bay	Station Number:	AMS 505
Start Time (MST):	10:40	End Time (MST):	14:56
Analyzer make:	API T200	Analyzer serial #:	4259

Calibration Data

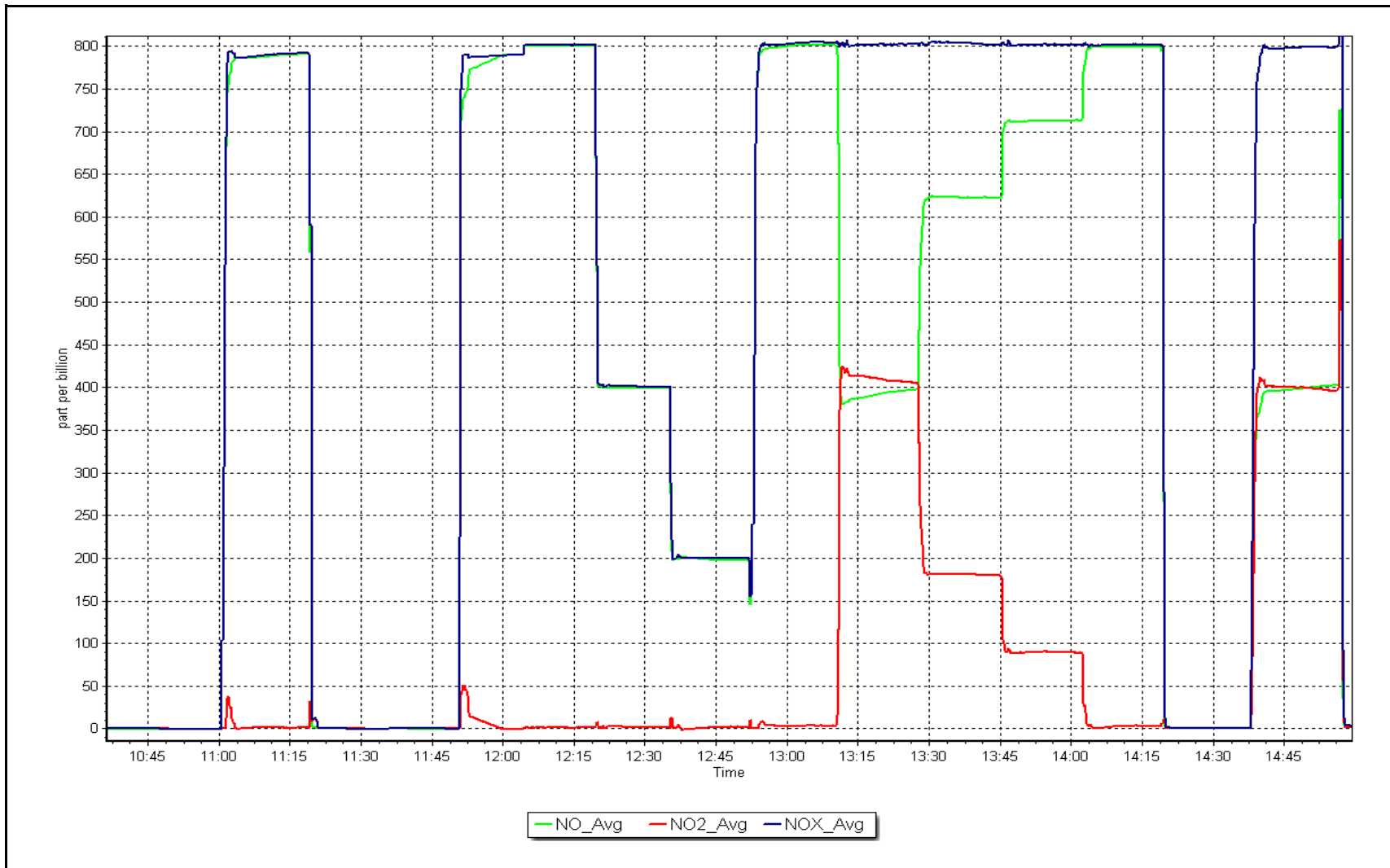
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.1	----	Correlation Coefficient	0.999994	<i>≥0.995</i>
800.4	800.2	1.0003	Slope	1.000545	<i>0.90 - 1.10</i>
399.6	399.2	1.0009	Intercept	-0.849887	<i>+/-20</i>
200.4	198.5	1.0096			



NO_x Calibration Plot

Date: February 23, 2026

Location: Sawbones Bay





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS507 KIRBY SOUTH FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Kirby South	Station number:	AMS 507
Calibration Date:	February 19, 2026	Last Cal Date:	January 21, 2026
Start time (MST):	15:49	End time (MST):	19:42
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	50.74	ppm	Cal Gas Exp Date: October 9, 2023
Cal Gas Cylinder #:	<u>CC255918</u>		
Removed Cal Gas Conc:	50.74	ppm	Rem Gas Exp Date:
Removed Gas Cyl #:			Diff between cyl:
Calibrator Model:	Teledyne API T700		Serial Number: 2445
Zero Air Gen Model:	Teledyne API T701H		Serial Number: 880

Analyzer Information

Analyzer make:	Thermo 43iQ-TLE	Serial Number:	1182340007
Analyzer Range:	0 - 1000 ppb		

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	0.998047	1.001634	Backgd or Offset:	30.6	31.1
Calibration intercept:	0.327956	-0.052026	Coeff or Slope:	1.124	1.134

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4921	78.8	799.7	793.0	1.008
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	793.0	Previous response	798.5	*% change	-0.7%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.0	----
High point	4921	78.8	799.7	801.2	0.998
Mid point	4961	39.4	399.8	399.7	1.000
Low point	4980	19.7	199.9	200.6	0.997
As left zero	5000	0.0	0.0	-0.1	----
As left span	4921	78.8	799.7	801.0	0.998
Average Correction Factor:					0.998

Notes: Changed sample inlet filter after as founds. Adjusted span.

Calibration Performed By: Braiden Boutillier



Wood Buffalo Environmental Association

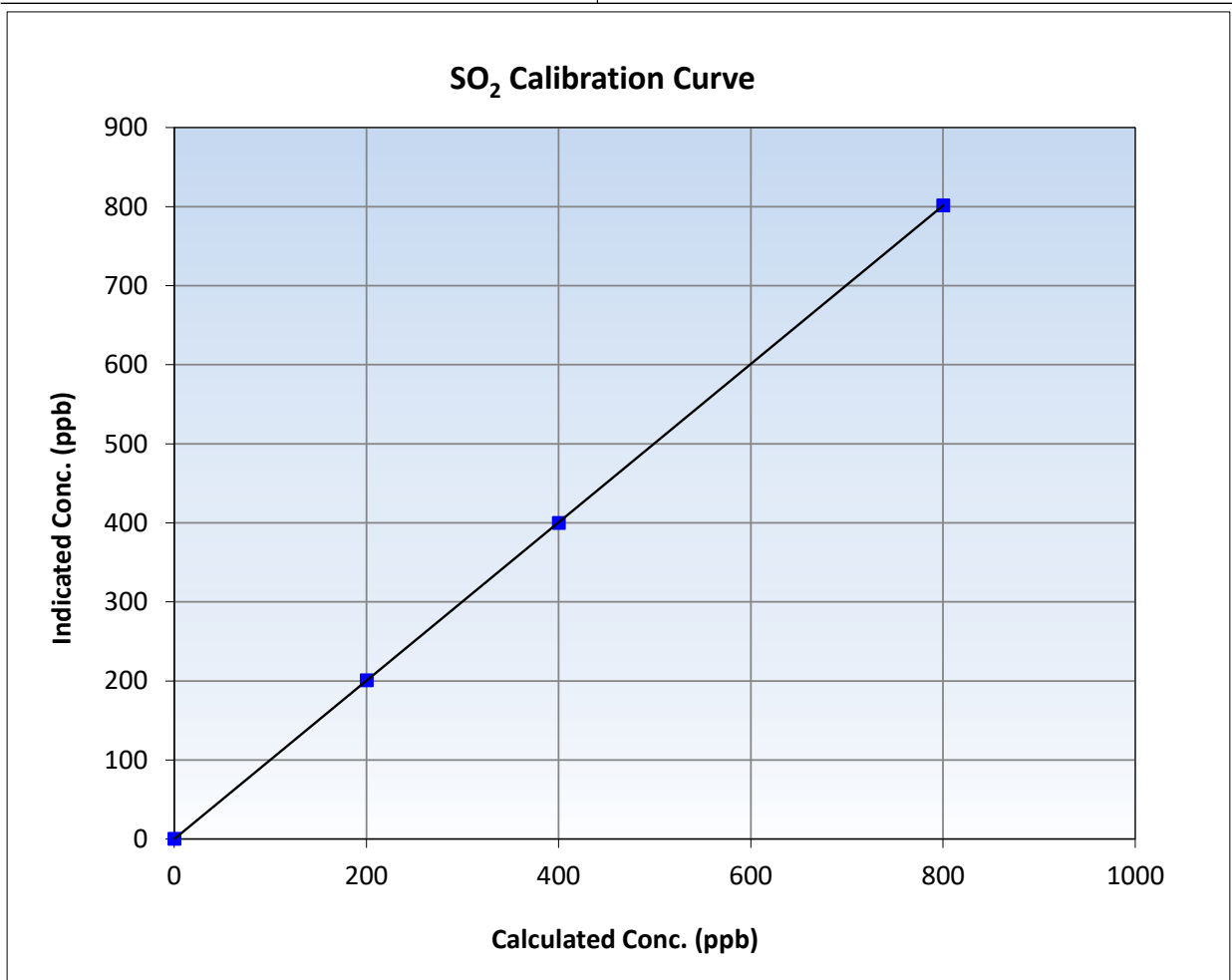
SO₂ Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 21, 2026
Station Name:	Kirby South	Station Number:	AMS 507
Start Time (MST):	15:49	End Time (MST):	19:42
Analyzer make:	Thermo 43iQ-TLE	Analyzer serial #:	1182340007

Calibration Data

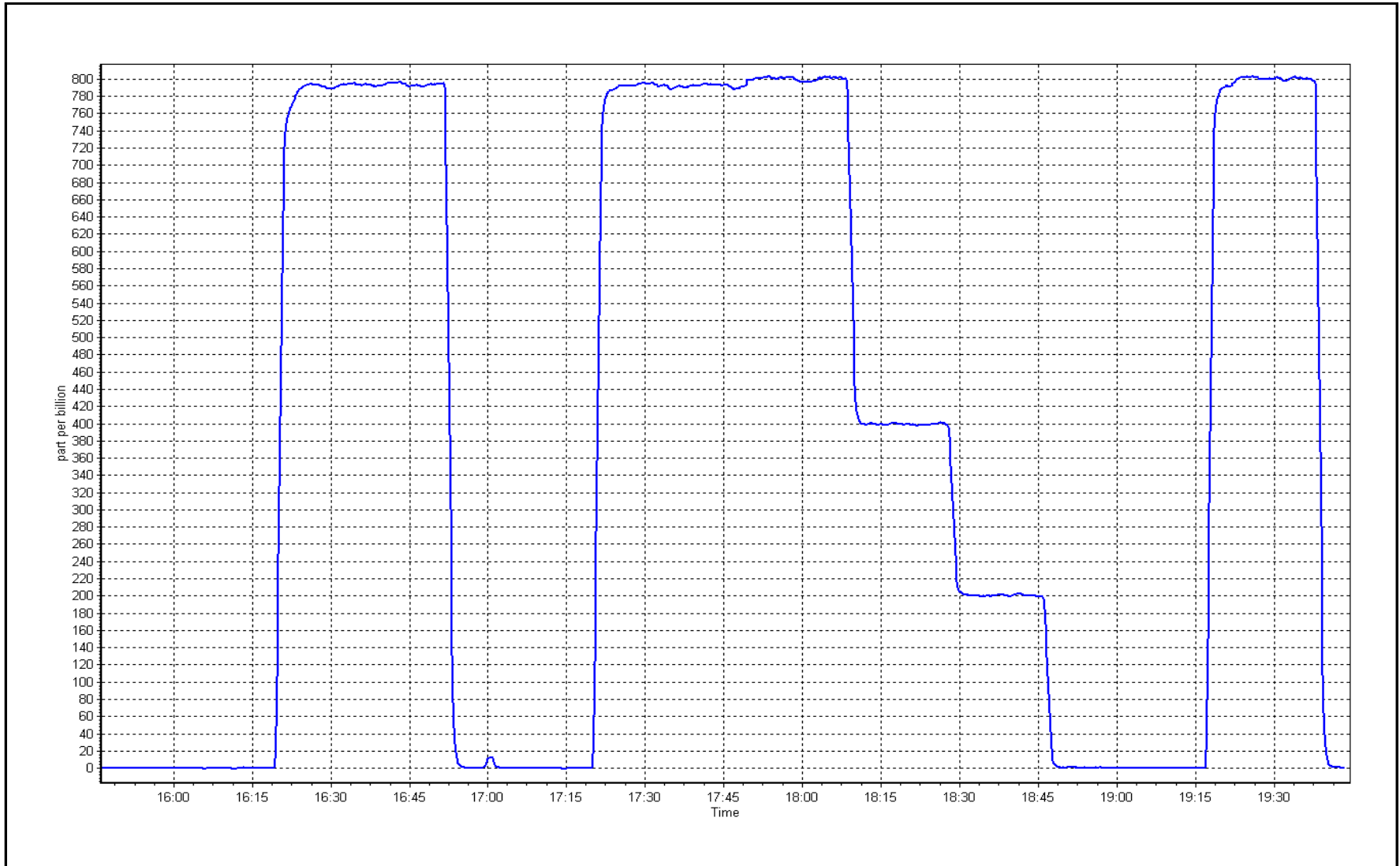
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>
0.0	0.0	----	Correlation Coefficient	0.999998
799.7	801.2	0.9981	Slope	1.001634
399.8	399.7	1.0002	Intercept	-0.052026
199.9	200.6	0.9966		
				≥0.995 0.90 - 1.10 +/-30



SO2 Calibration Plot

Date: February 19, 2026

Location: Kirby South





Wood Buffalo Environmental Association

H2S Calibration Report

Station Information

Station Name:	Kirby South	Station number:	AMS 507
Calibration Date:	February 19, 2026	Last Cal Date:	January 8, 2026
Start time (MST):	13:21	End time (MST):	19:42
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	5.05 ppm	Cal Gas Exp Date:	November 15, 2026
Cal Gas Cylinder #:	<u>DT0019762</u>		
Removed Cal Gas Conc:	5.05 ppm	Rem Gas Exp Date:	NA
Removed Gas Cyl #:	n/a	Diff between cyl:	
Calibrator Make/Model:	Teledyne API T750	Serial Number:	281
ZAG Make/Model:	Teledyne API T751H	Serial Number:	529

Analyzer Information

Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1150840012
Converter make:	Global	Converter serial #:	2022-197
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.000957	0.964096	Backgd or Offset:	1.70	1.72
Calibration intercept:	-0.080000	0.360000	Coeff or Slope:	1.072	1.072

H2S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4921	79.2	80.0	77.2	1.036
As found Mid point	4960	39.6	40.0	39.2	1.020
As found Low point	4980	19.8	20.0	19.8	1.010
New cylinder response					
Baseline Corr As found:	77.2	Prev response:	79.99	*% change:	-3.6%
Baseline Corr 2nd AF pt:	39.2	AF Slope:	0.963811	AF Intercept:	0.320000
Baseline Corr 3rd AF pt:	19.8	AF Correlation:	0.999907	<i>* = > +/-5% change initiates investigation</i>	

H2S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.3	----
High point	4921	79.2	80.0	77.5	1.032
Mid point	4960	39.6	40.0	38.8	1.031
Low point	4980	19.8	20.0	19.8	1.010
As left zero					
As left span					
SO2 Scrubber Check	4919	80.0	800.2	-0.1	----
Date of last scrubber change:		July 25, 2023		Ave Corr Factor	1.024
Date of last converter efficiency test:		September 18, 2025		102.4% efficiency	

Notes: Changed sample inlet filter after as founds. No adjustments made. Slow response likely caused by extremely cold weather conditions.

Calibration Performed By: Braiden Boutilier



Wood Buffalo Environmental Association

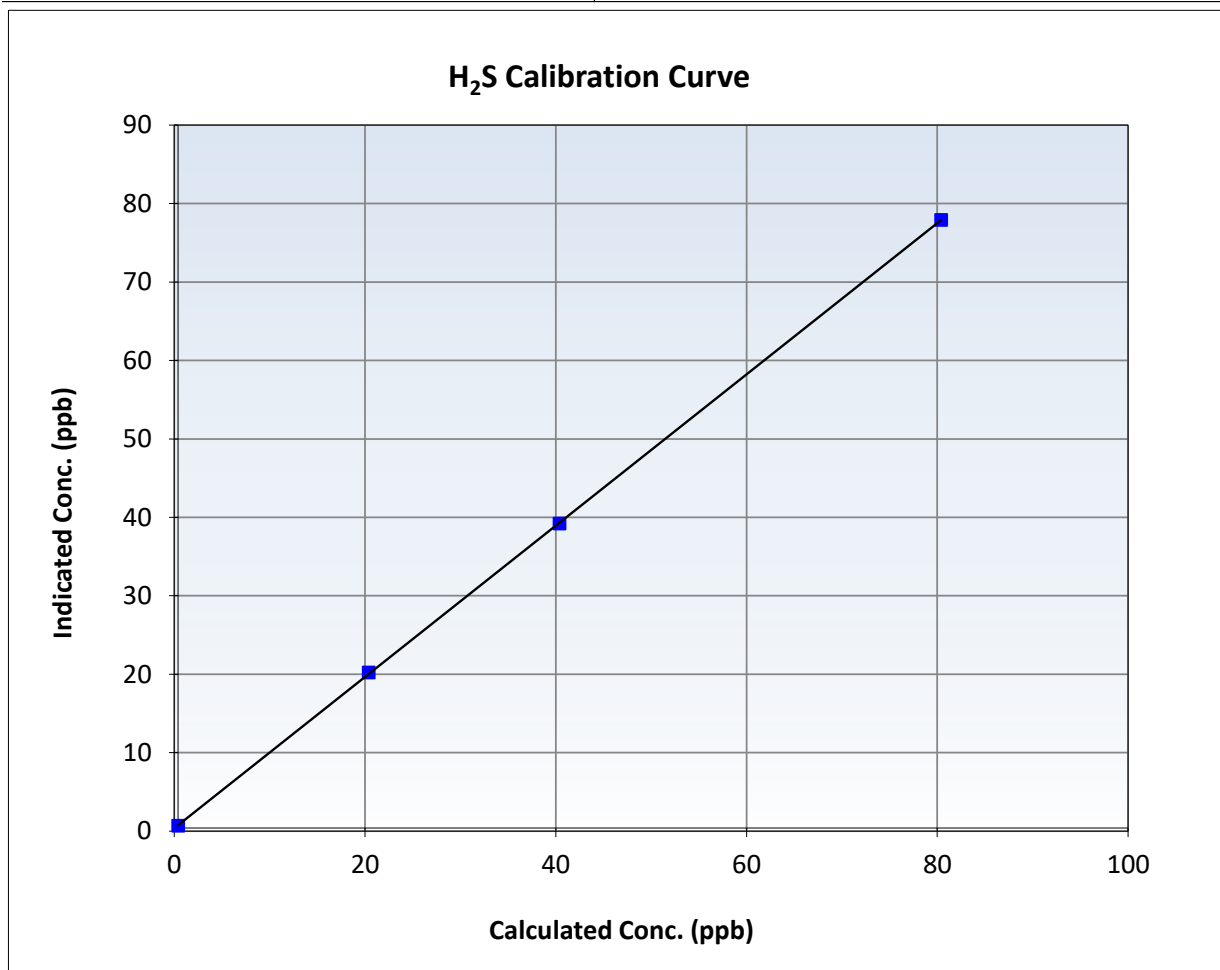
H2S Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 8, 2026
Station Name:	Kirby South	Station Number:	AMS 507
Start Time (MST):	13:21	End Time (MST):	19:42
Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1150840012

Calibration Data

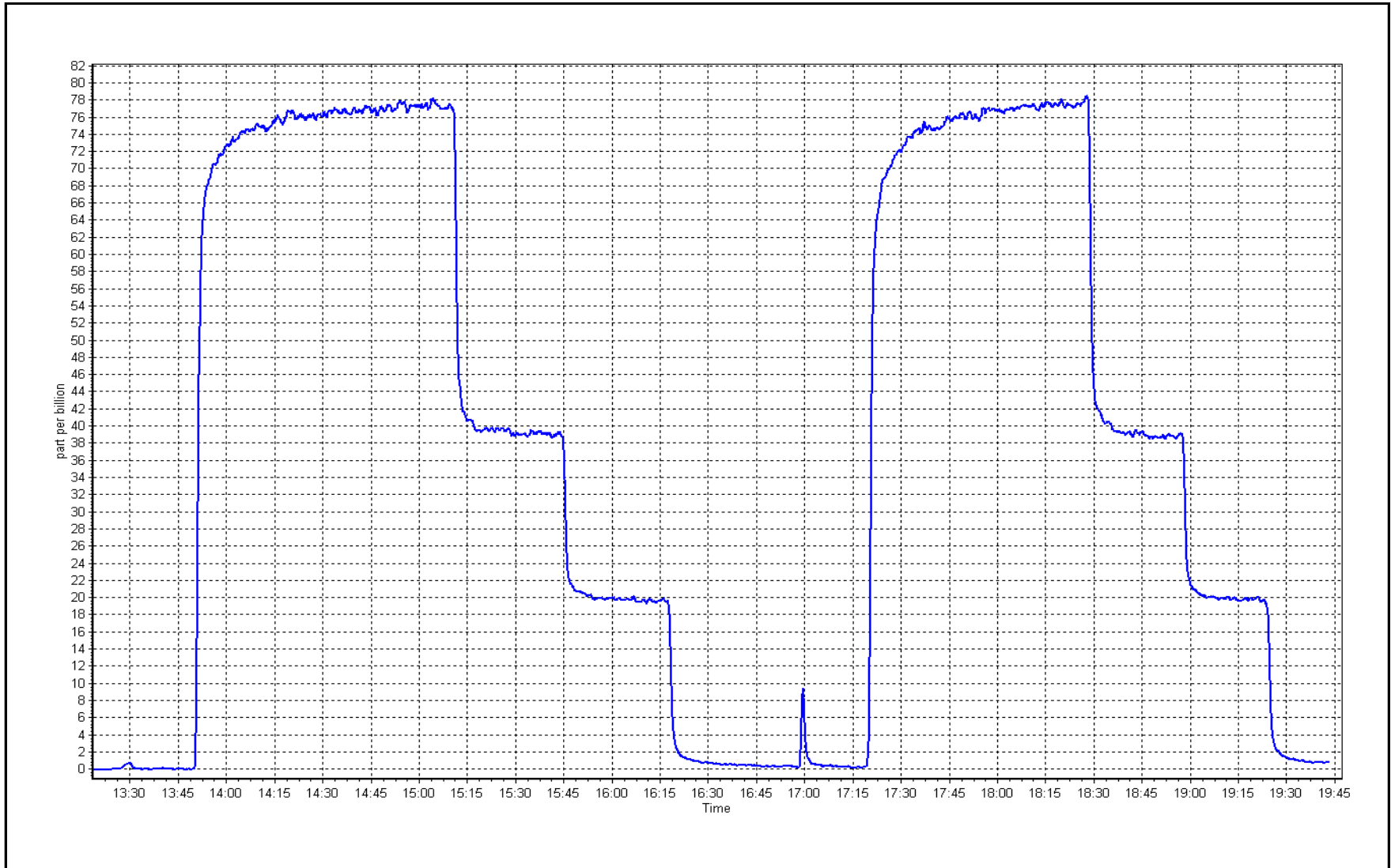
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.3	----	Correlation Coefficient	0.999986	≥ 0.995
80.0	77.5	1.0322	Slope	0.964096	$0.90 - 1.10$
40.0	38.8	1.0308	Intercept	0.360000	± 3
20.0	19.8	1.0100			



H2S Calibration Plot

Date: February 19, 2026

Location: Kirby South





Wood Buffalo Environmental Association

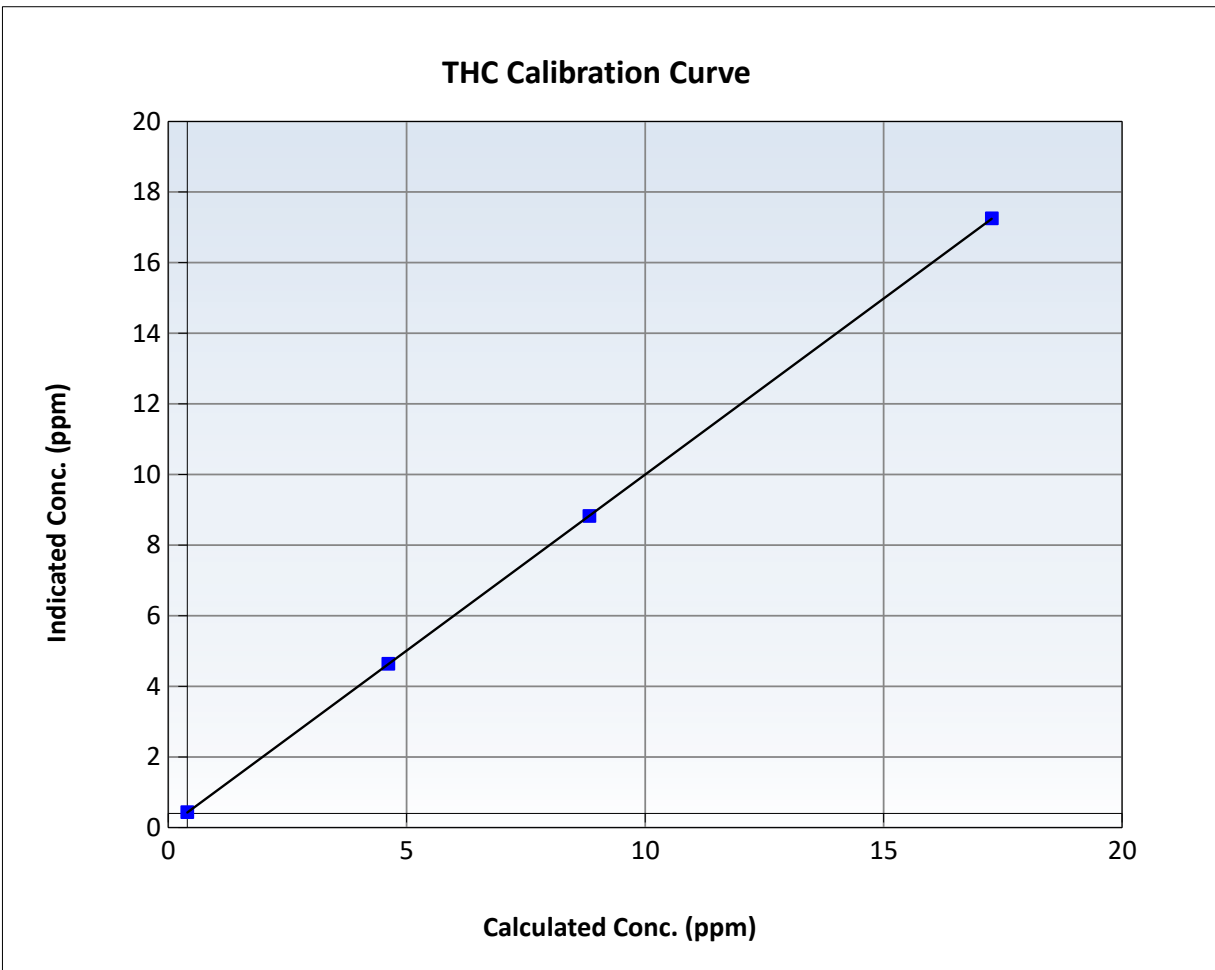
THC Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 21, 2026
Station Name:	Kirby South	Station Number:	AMS 507
Start Time (MST):	13:21	End Time (MST):	19:42
Analyzer make:	Thermo 51i-LT	Analyzer serial #:	1182340005

Calibration Data

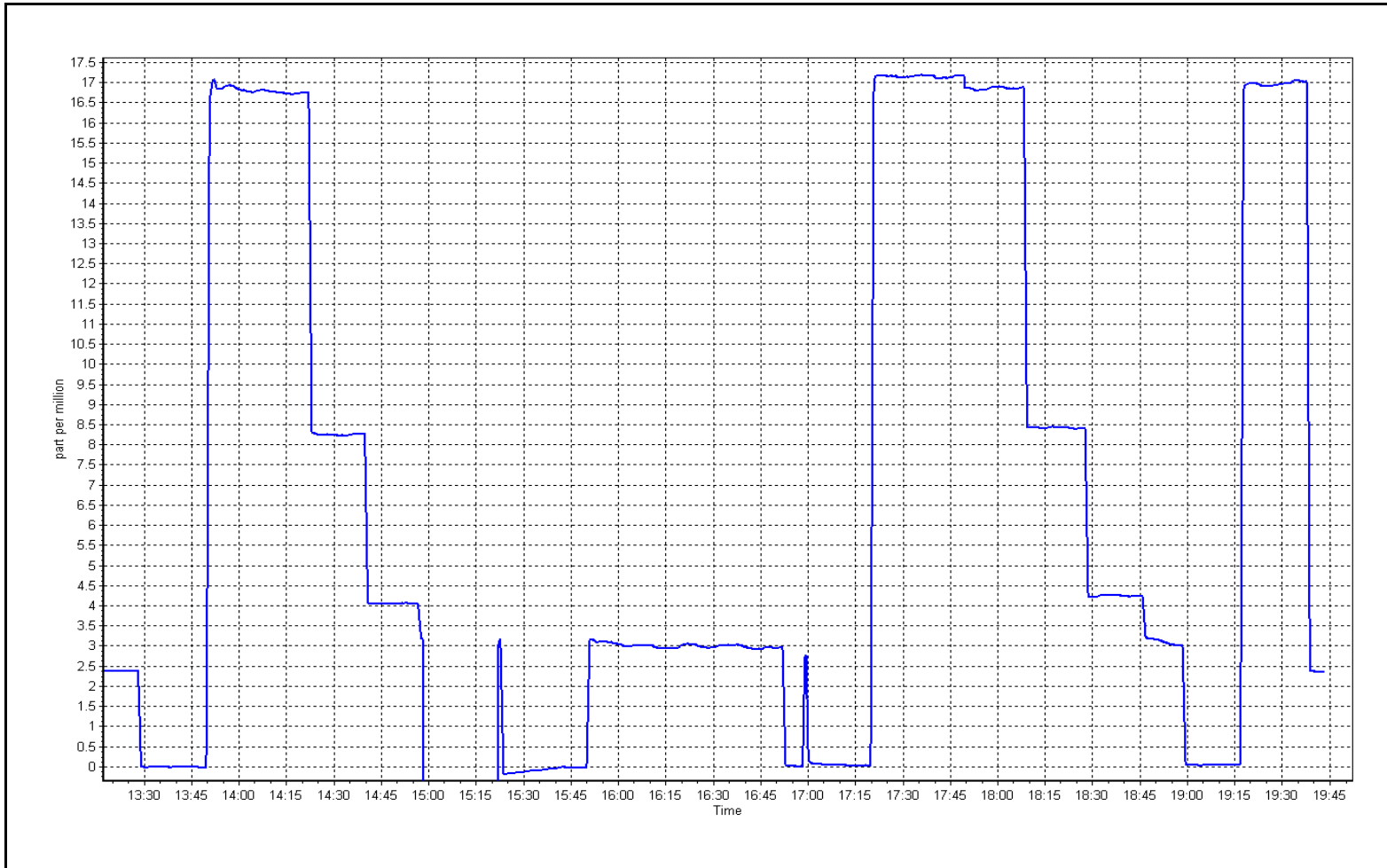
Calculated Concentration (ppm) (Cc)	Indicated Concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.00	0.03	----	Correlation Coefficient	0.999998	≥0.995
16.87	16.85	1.0010	Slope	0.997077	0.90 - 1.10
8.43	8.42	1.0014	Intercept	0.026567	+/-1.5
4.22	4.23	0.9961			



THC Calibration Plot

Date: February 19, 2026

Location: Kirby South





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Kirby South
 Station number: AMS 507
 Calibration Date: February 20, 2026
 Last Cal Date: January 8, 2026
 Start time (MST): 9:00
 End time (MST): 14:20
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: DT0019572
 NOX Cal Gas Conc: 60.00 ppm
 Removed Cylinder #: NA
 Removed Gas NOX Conc: 60.00 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701H
 Cal Gas Expiry Date: January 5, 2032
 NO Cal Gas Conc: 59.90 ppm
 Removed Gas Exp Date: NA
 Removed Gas NO Conc: 59.90 ppm
 NO gas Diff:
 Serial Number: 2445
 Serial Number: 880

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	1.1	0.5	0.6	----	----
AF High point	4933	66.8	801.6	800.3	1.3	813.0	813.0	-0.8	0.9874	0.9850
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 798.6 ppb		NO = 800.7 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = 1.6%	
Baseline Corr 1st pt	NO _x = 811.9 ppb		NO = 812.5 ppb			<u>As Found Statistics</u>		*Percent Change	NO = 1.4%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Thermo 42i
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 1173480006

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	0.996537	1.001556
NO _x Cal Offset:	-0.293626	-1.153586
NO Cal Slope:	1.002828	0.998544
NO Cal Offset:	-1.813620	-1.413626
NO ₂ Cal Slope:	0.966911	0.989597
NO ₂ Cal Offset:	0.221977	0.998089

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	0.724	0.724	NO bkgnd or offset:	7.5	7.5
NOX coeff or slope:	0.991	0.991	NOX bkgnd or offset:	7.5	7.5
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	140.8	143.2

Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NOx concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO2 concentration (ppb) (Cc)	Indicated NOx concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO2 concentration (ppb) (Ic)	NOx Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	-0.4	0.0	-0.4	----	----
High point	4933	66.8	801.6	800.3	1.3	802.0	798.3	3.4	0.9995	1.0025
Mid point	4967	33.4	400.8	400.1	0.7	400.2	397.8	2.3	1.0015	1.0059
Low point	4983	16.7	200.4	200.1	0.3	198.6	196.7	1.9	1.0091	1.0171
As left zero	5000	0.0	0.0	0.0	0.0	-0.7	-0.2	-0.5	----	----
As left span	4933	66.8	801.6	401.9	399.7	793.2	401.9	391.3	1.0106	1.0000
Average Correction Factor									1.0034	1.0085

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO2 concentration (ppb) (Cc)	Indicated NO2 concentration (ppb) (Ic)	NO2 Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	-0.4	----	----
High GPT point	795.5	406.2	390.6	386.8	1.0099	99.0%
Mid GPT point	795.5	623.3	173.5	174.0	0.9973	100.3%
Low GPT point	795.5	707.3	89.5	90.5	0.9893	101.1%
Average Correction Factor					0.9989	100.1%

Notes: Changed sample inlet filter after as founds. Adjusted zero and span.

Calibration Performed By: Braiden Boutilier



Wood Buffalo Environmental Association

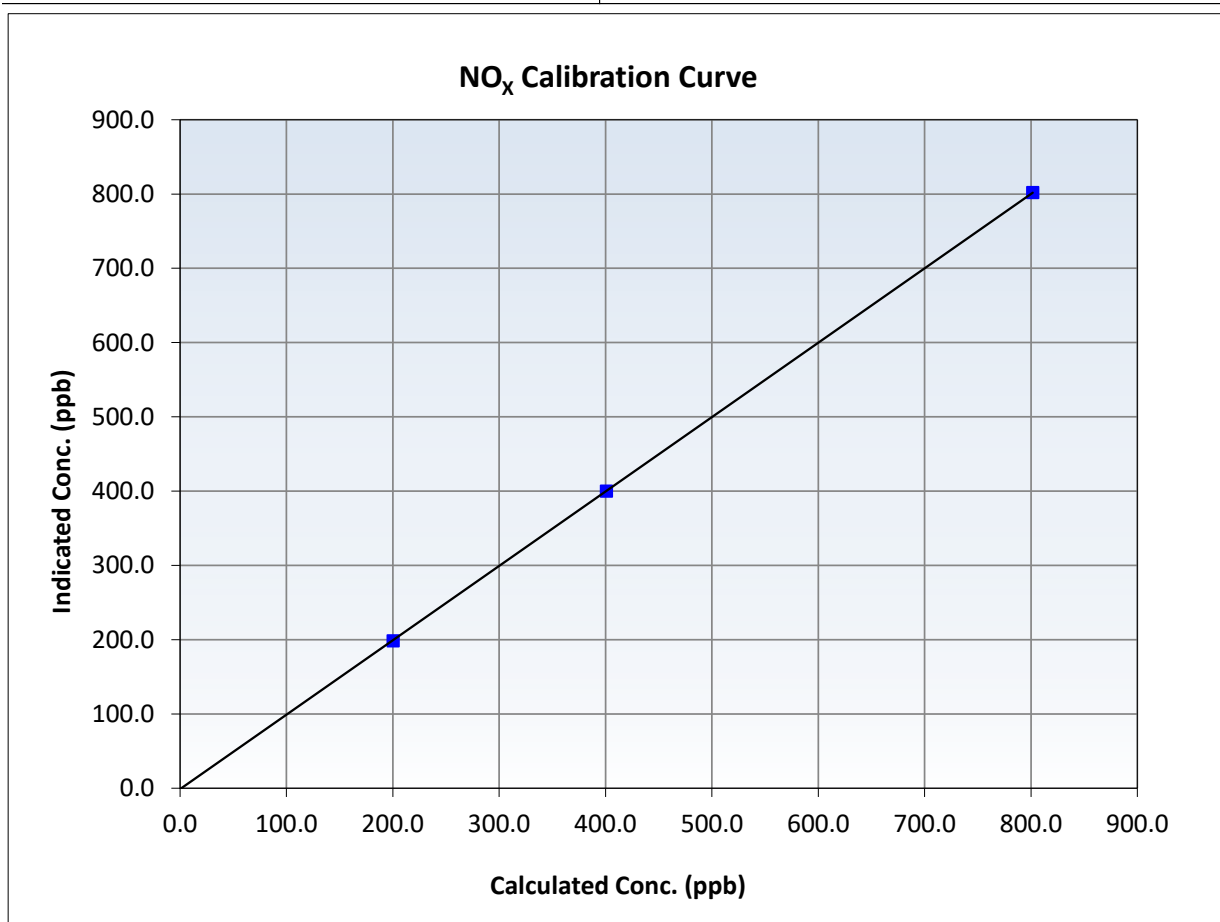
NO_x Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 8, 2026
Station Name:	Kirby South	Station Number:	AMS 507
Start Time (MST):	9:00	End Time (MST):	14:20
Analyzer make:	Thermo 42i	Analyzer serial #:	1173480006

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.4	----	Correlation Coefficient	0.999996	≥0.995
801.6	802.0	0.9995	Slope	1.001556	0.90 - 1.10
400.8	400.2	1.0015	Intercept	-1.153586	+/-20
200.4	198.6	1.0091			





Wood Buffalo Environmental Association

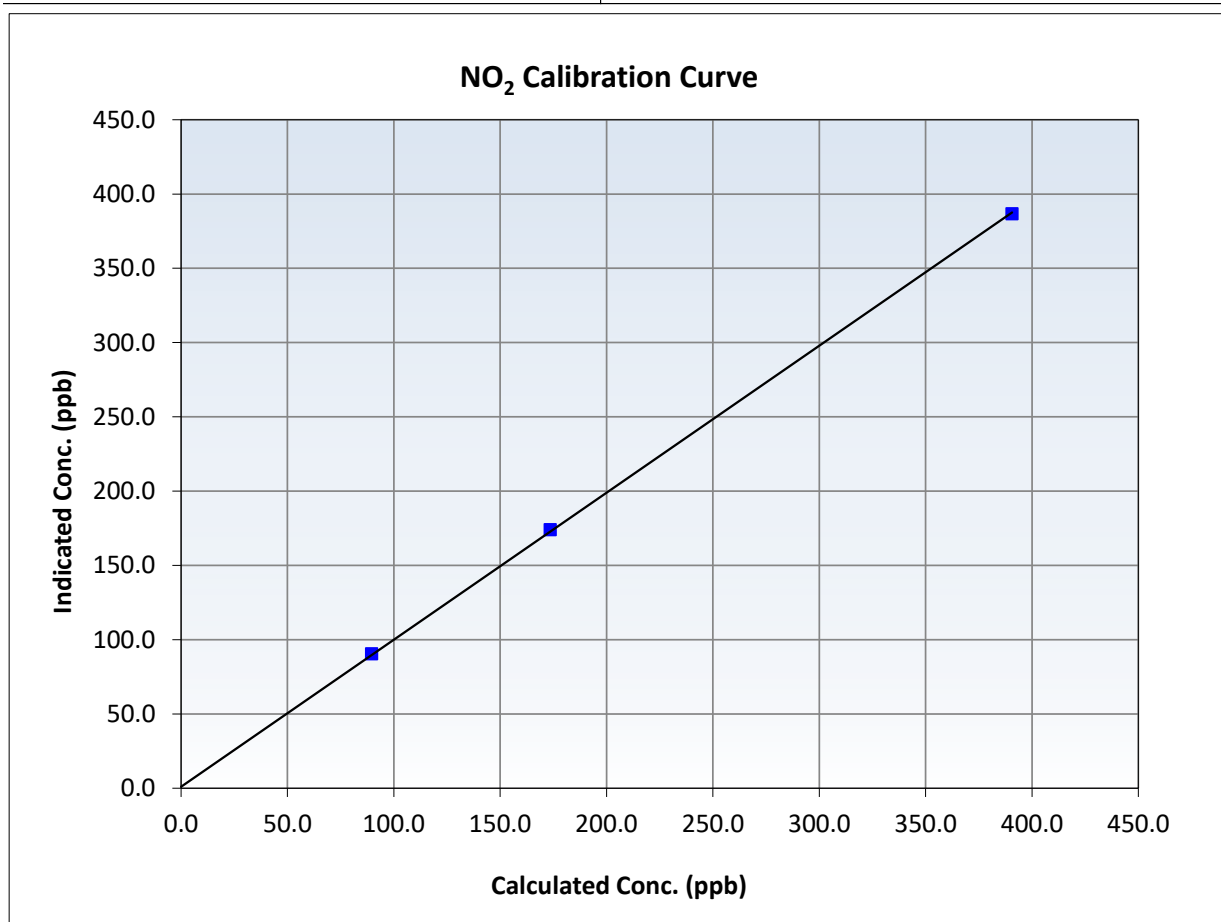
NO₂ Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 8, 2026
Station Name:	Kirby South	Station Number:	AMS 507
Start Time (MST):	9:00	End Time (MST):	14:20
Analyzer make:	Thermo 42i	Analyzer serial #:	1173480006

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.4	----	Correlation Coefficient	0.999940	≥0.995
390.6	386.8	1.0099	Slope	0.989597	0.90 - 1.10
173.5	174.0	0.9973	Intercept	0.998089	+/-20
89.5	90.5	0.9893			





Wood Buffalo Environmental Association

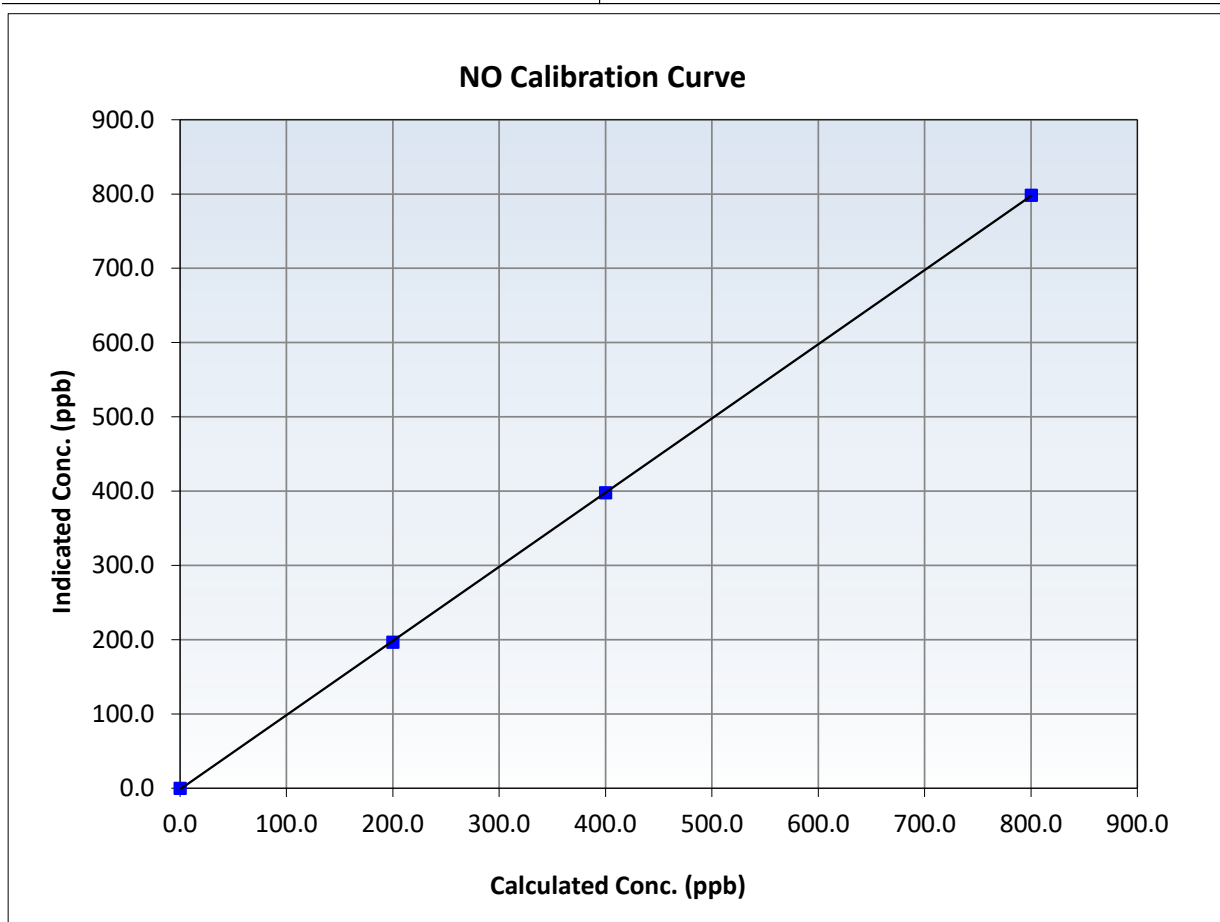
NO Calibration Summary

Station Information

Calibration Date:	February 20, 2026	Previous Calibration:	January 8, 2026
Station Name:	Kirby South	Station Number:	AMS 507
Start Time (MST):	9:00	End Time (MST):	14:20
Analyzer make:	Thermo 42i	Analyzer serial #:	1173480006

Calibration Data

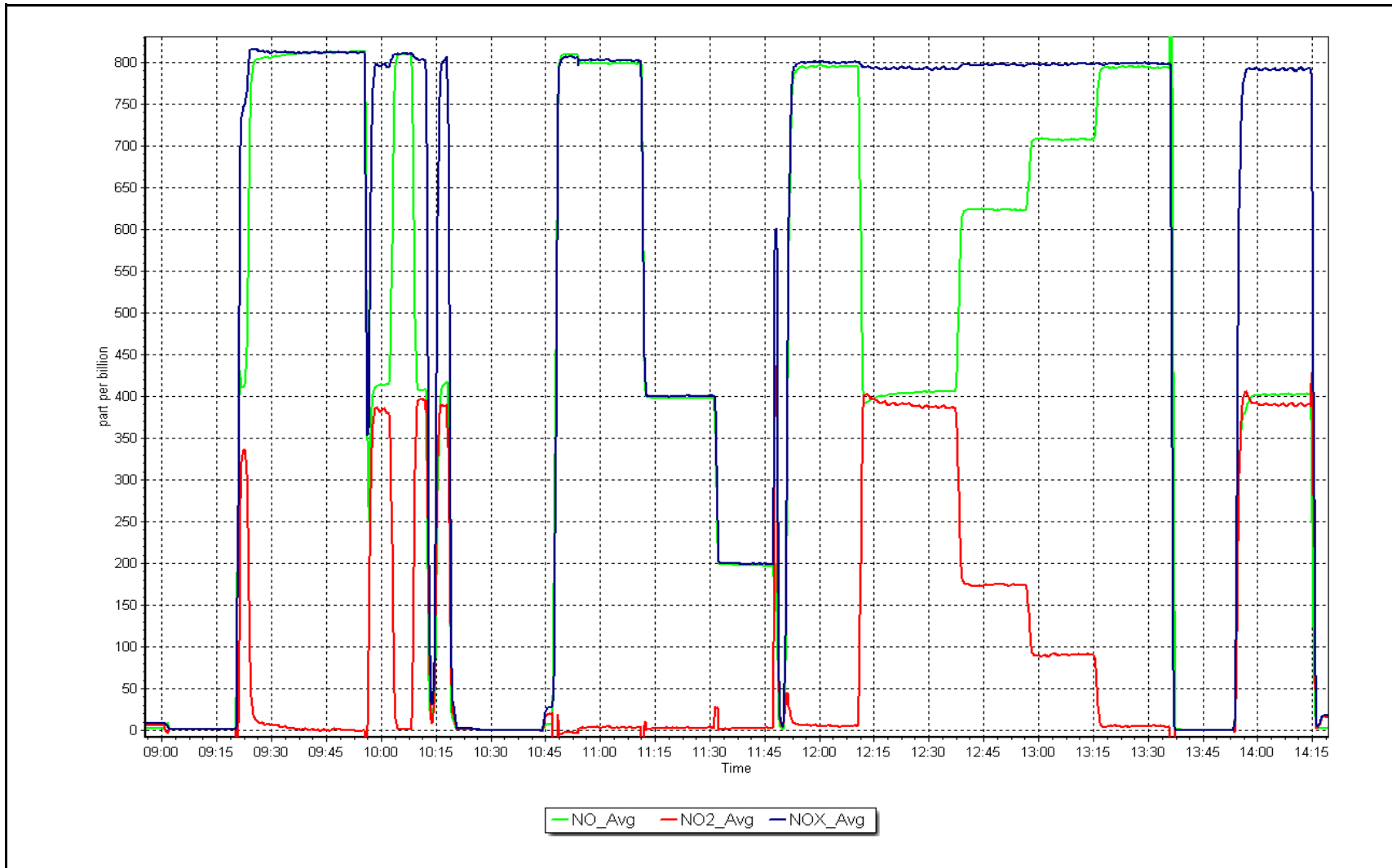
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	0.0	----	Correlation Coefficient	0.999985	<i>≥0.995</i>
800.3	798.3	1.0025	Slope	0.998544	<i>0.90 - 1.10</i>
400.1	397.8	1.0059	Intercept	-1.413626	<i>+/-20</i>
200.1	196.7	1.0171			



NO_x Calibration Plot

Date: February 20, 2026

Location: Kirby South





WOOD BUFFALO ENVIRONMENTAL ASSOCIATION

CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
CALIBRATION REPORT

AMS511 BLACKGOLD FEBRUARY 2026

Operations, Data Collection,
QA/QC, Data Validation and Reporting by:
Wood Buffalo Environmental Association
Fort McMurray, Alberta

March 31, 2026



Wood Buffalo Environmental Association

SO₂ Calibration Report

Station Information

Station Name:	Blackgold	Station number:	AMS 511
Calibration Date:	February 23, 2026	Last Cal Date:	January 13, 2026
Start time (MST):	12:47	End time (MST):	16:30
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	49.37	ppm	Cal Gas Exp Date: January 5, 2029
Cal Gas Cylinder #:	CC303094		
Removed Cal Gas Conc:	49.37	ppm	Rem Gas Exp Date:
Removed Gas Cyl #:	N/A		Diff between cyl:
Calibrator Model:	Teledyne API T700		Serial Number: 2659
Zero Air Gen Model:	Teledyne API 701		Serial Number: 953

Analyzer Information

Analyzer make:	Thermo 43i	Serial Number: 1173410001
Analyzer Range:	0 - 1000 ppb	

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.004301	1.000228	Backgd or Offset:	15.2	15.5
Calibration intercept:	-1.520673	-1.120113	Coeff or Slope:	1.167	1.189

SO₂ As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.3	----
As found High point	4919	81.0	799.8	782.3	1.023
As found Mid point					
As found Low point					
New cylinder response					
Baseline Corr As found:	782.0	Previous response	801.7	*% change	-2.5%
Baseline Corr 2nd AF pt:	NA	AF Slope:		AF Intercept:	
Baseline Corr 3rd AF pt:	NA	AF Correlation:		* = > +/-5% change initiates investigation	

SO₂ Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.3	----
High point	4919	81.0	799.8	799.7	1.000
Mid point	4959	40.5	399.9	397.8	1.005
Low point	4980	20.3	200.4	198.2	1.011
As left zero	5000	0.0	0.0	0.3	----
As left span	4919	81.0	799.8	801.4	0.998
Average Correction Factor:					1.006

Notes: Sample inlet filter changed after as founds. Span adjustment performed.

Calibration Performed By: Mohammed Kashif



Wood Buffalo Environmental Association

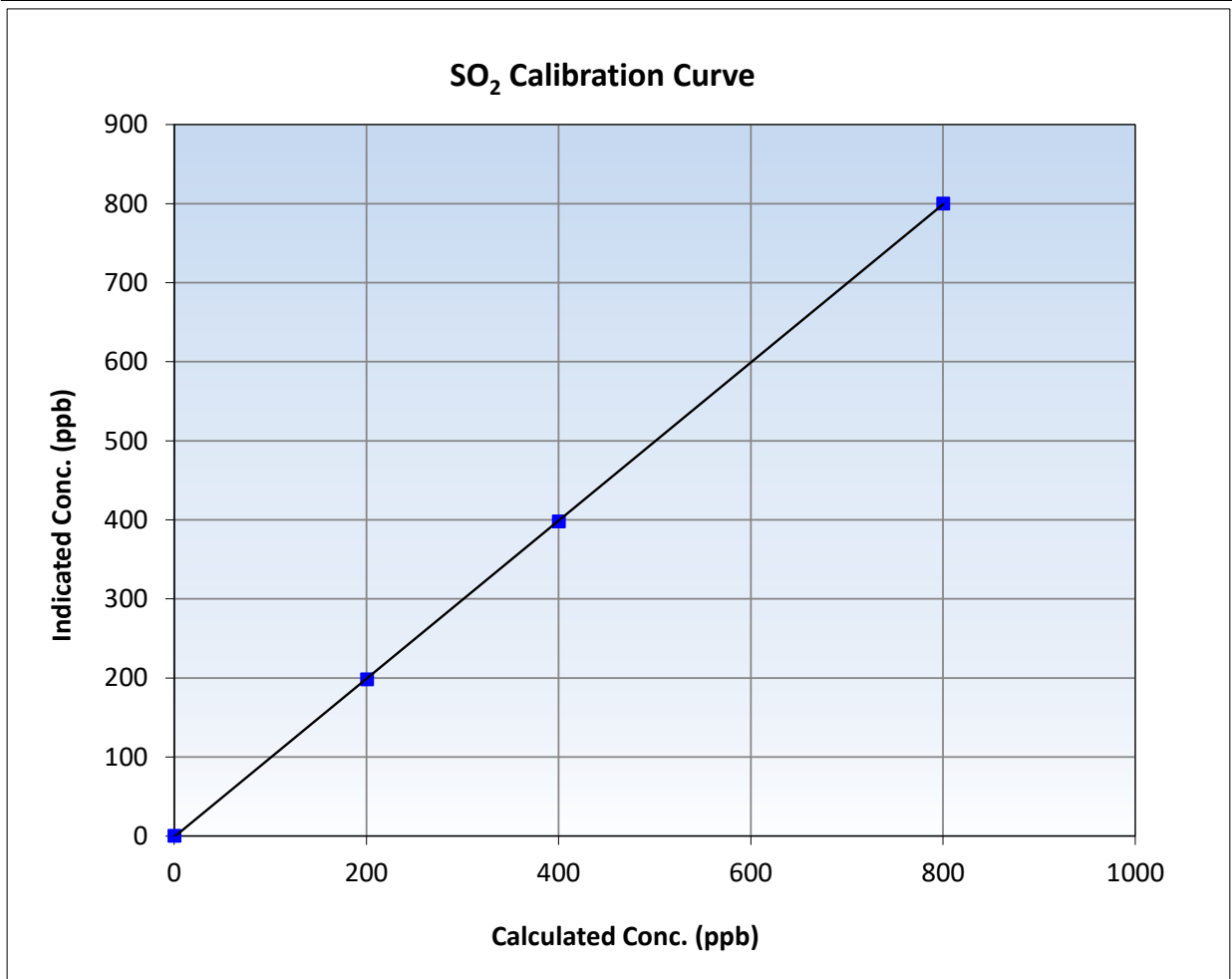
SO₂ Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 13, 2026
Station Name:	Blackgold	Station Number:	AMS 511
Start Time (MST):	12:47	End Time (MST):	16:30
Analyzer make:	Thermo 43i	Analyzer serial #:	1173410001

Calibration Data

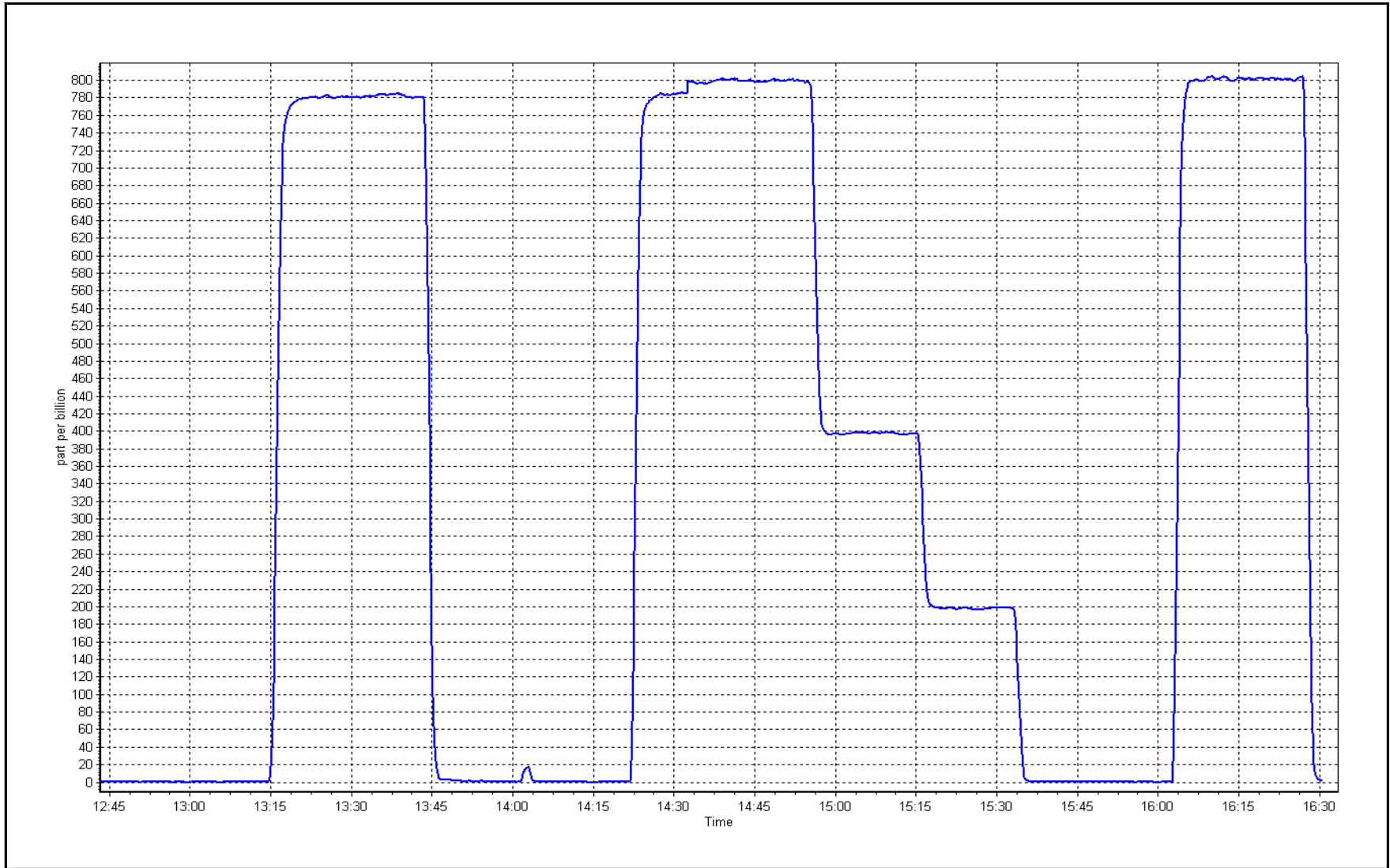
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation	<u>Limits</u>	
0.0	0.3	----	Correlation Coefficient	0.999985	≥0.995
799.8	799.7	1.0001	Slope	1.000228	0.90 - 1.10
399.9	397.8	1.0054	Intercept	-1.120113	+/-30
200.4	198.2	1.0113			



SO2 Calibration Plot

Date: February 23, 2026

Location: Blackgold





Wood Buffalo Environmental Association

H₂S Calibration Report

Station Information

Station Name:	Blackgold	Station number:	AMS 511
Calibration Date:	February 27, 2026	Last Cal Date:	January 7, 2026
Start time (MST):	11:20	End time (MST):	15:40
Reason:	Routine		

Calibration Standards

Cal Gas Concentration:	5.139	ppm	Cal Gas Exp Date:	January 3, 2026
Cal Gas Cylinder #:	CC511397			
Removed Cal Gas Conc:	5.139	ppm	Rem Gas Exp Date:	N/A
Removed Gas Cyl #:	N/A		Diff between cyl:	
Calibrator Make/Model:	API T700		Serial Number:	2659
ZAG Make/Model:	API T701		Serial Number:	953

Analyzer Information

Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1336160090
Converter make:	Global G150	Converter serial #:	2025-299
Analyzer Range	0 - 100 ppb	Converter Temp:	325 degC

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
Calibration slope:	1.004493	0.998058	Backgd or Offset:	4.61	4.56
Calibration intercept:	0.120663	0.120871	Coeff or Slope:	1.448	1.465

H₂S As Found Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Baseline Adjusted Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90-1.10</i>
As found zero	5000	0.0	0.0	0.0	----
As found High point	4922	77.8	80.0	78.9	1.014
As found Mid point	4961	38.9	40.0	39.7	1.007
As found Low point	4981	19.5	20.0	19.9	1.007
New cylinder response					
Baseline Corr As found:	78.9	Prev response:	80.45	*% change:	-2.0%
Baseline Corr 2nd AF pt:	39.7	AF Slope:	0.986483	AF Intercept:	0.100973
Baseline Corr 3rd AF pt:	19.9	AF Correlation:	0.999987	<i>* = > +/-5% change initiates investigation</i>	

H₂S Calibration Data

Set Point	Dilution air flow rate (sccm)	Source gas flow rate (sccm)	Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Calibrator zero	5000	0.0	0.0	0.3	----
High point	4922	77.8	80.0	80.0	1.000
Mid point	4961	38.9	40.0	40.0	1.000
Low point	4981	19.5	20.0	19.9	1.007
As left zero	5000	0.0	0.0	0.4	----
As left span	4922	77.8	80.0	80.2	0.997
SO2 Scrubber Check	4919	81.0	810.0	-0.1	----
Date of last scrubber change:				Ave Corr Factor	1.002
Date of last converter efficiency test:					

Notes: Changed sample inlet filter after as founds. Ran scrubber check after calibrator zero. Span adjusted.

Calibration Performed By: Devin Russell



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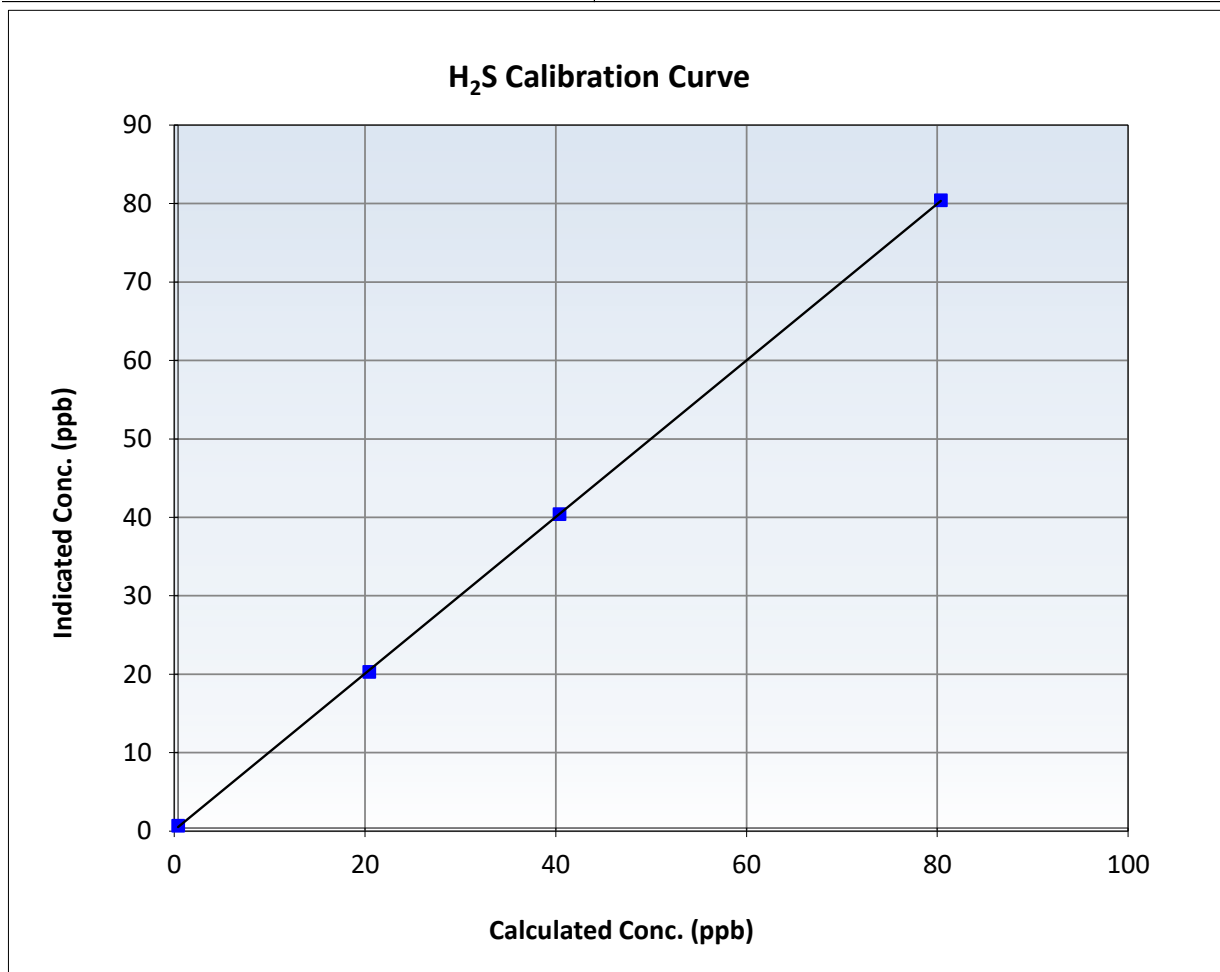
H₂S Calibration Summary

Station Information

Calibration Date:	February 27, 2026	Previous Calibration:	January 7, 2026
Station Name:	Blackgold	Station Number:	AMS 511
Start Time (MST):	11:20	End Time (MST):	15:40
Analyzer make:	Thermo 43i-TLE	Analyzer serial #:	1336160090

Calibration Data

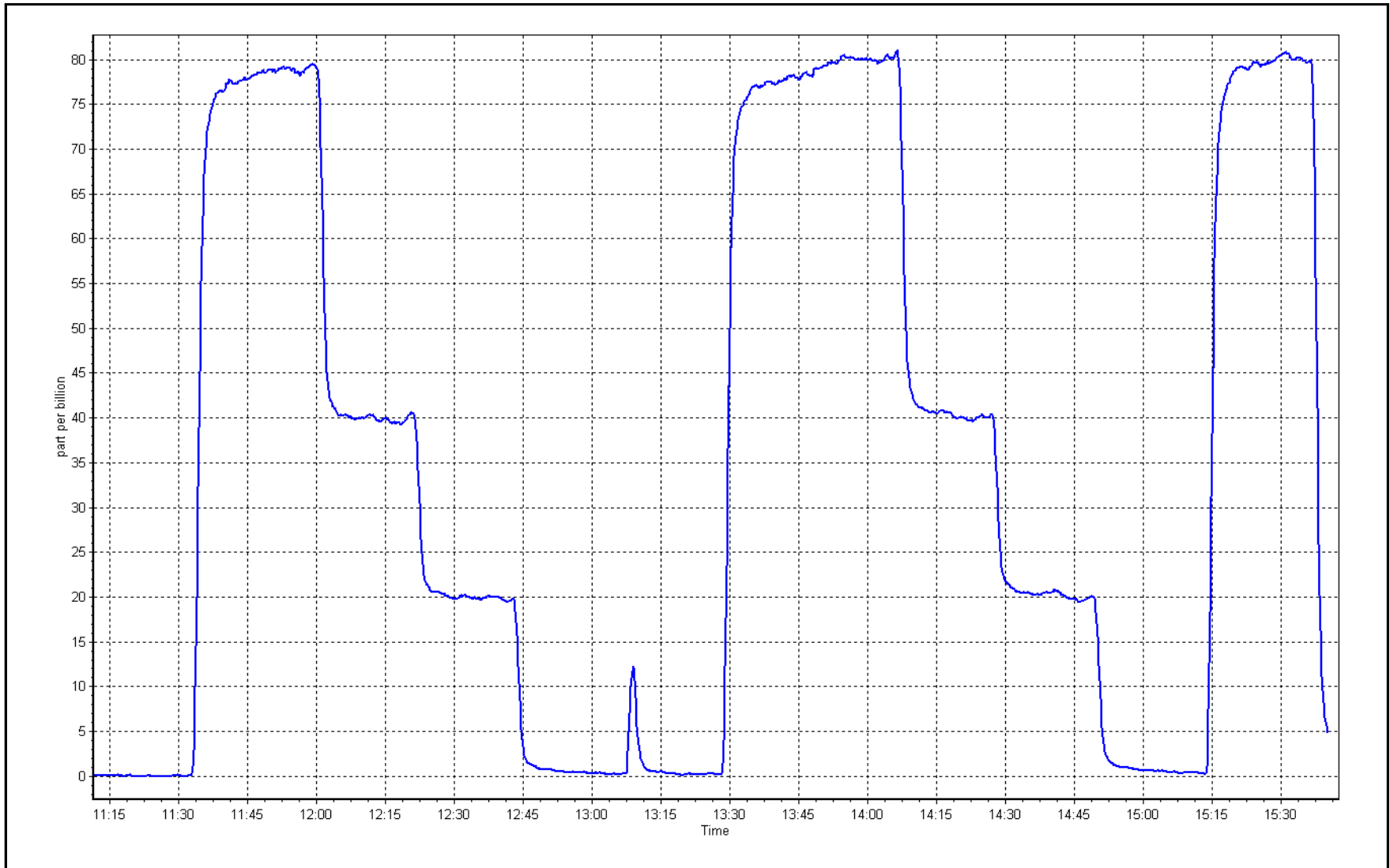
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.0	0.3	----	Correlation Coefficient	0.999975	≥0.995
80.0	80.0	0.9996	Slope	0.998058	0.90 - 1.10
40.0	40.0	0.9996	Intercept	0.120871	+/-3
20.0	19.9	1.0070			



H₂S Calibration Plot

Date: February 27, 2026

Location: Blackgold





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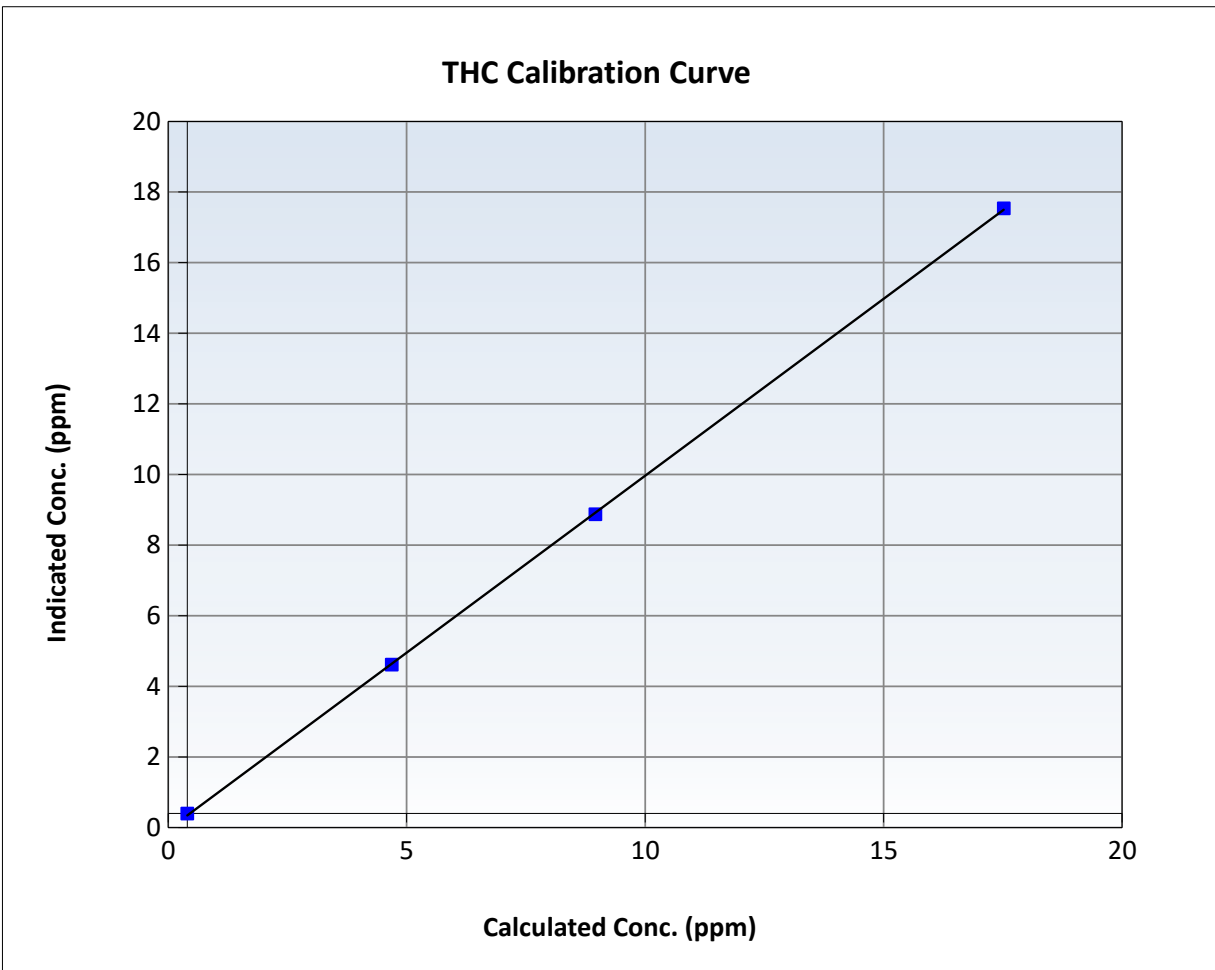
THC Calibration Summary

Station Information

Calibration Date:	February 23, 2026	Previous Calibration:	January 13, 2026
Station Name:	Blackgold	Station Number:	AMS 511
Start Time (MST):	12:47	End Time (MST):	16:30
Analyzer make:	Thermo 51i	Analyzer serial #:	12426335705

Calibration Data

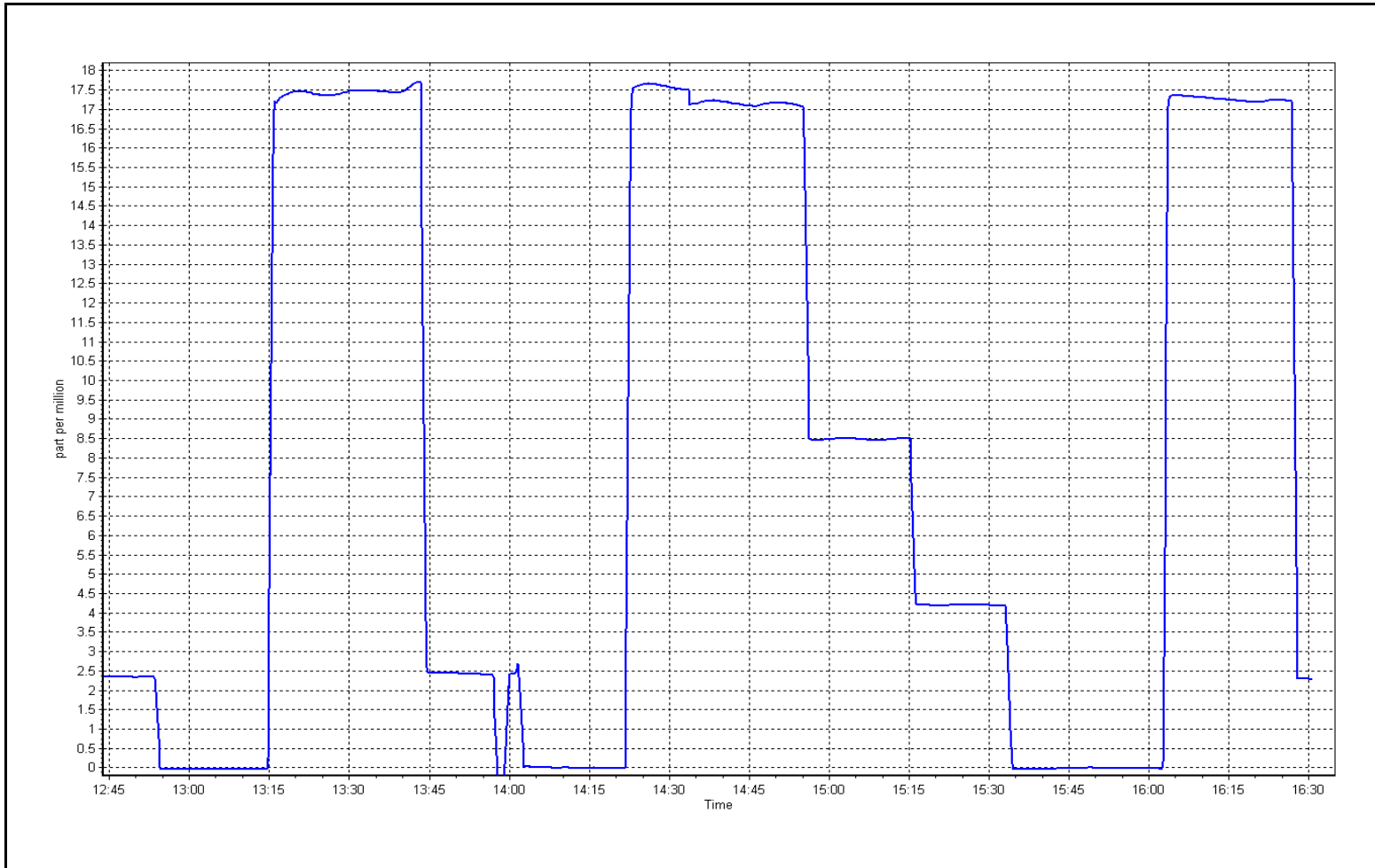
Calculated Concentration (ppm) (Cc)	Indicated Concentration (ppm) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<u>Limits</u>
0.00	0.00	----	Correlation Coefficient	0.999949	≥0.995
17.12	17.14	0.9990	Slope	1.002204	0.90 - 1.10
8.56	8.47	1.0108	Intercept	-0.055886	+/-1.5
4.29	4.21	1.0192			



THC Calibration Plot

Date: February 23, 2026

Location: Blackgold





Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Station Information

Station Name: Blackgold
 Station number: AMS 511
 Calibration Date: February 19, 2026
 Last Cal Date: January 13, 2026
 Start time (MST): 12:07
 End time (MST): 17:10
 Reason: Routine

Calibration Standards

NO Gas Cylinder #: T0F8P52
 NOX Cal Gas Conc: 47.43 ppm
 Removed Cylinder #: N/A
 Removed Gas NOX Conc: 47.43 ppm
 NOX gas Diff:
 Calibrator Model: Teledyne API T700
 ZAG make/model: Teledyne API T701
 Cal Gas Expiry Date: August 16, 2026
 NO Cal Gas Conc: 47.43 ppm
 Removed Gas Exp Date: N/A
 Removed Gas NO Conc: 47.43 ppm
 NO gas Diff:
 Serial Number: 2659
 Serial Number: 953

As Found Dilution Calibration Data

Set Point	Dilution flow rate (sccm)	Source gas flow rate (sccm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO _x Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Baseline Adjusted NO Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>
As found zero	5000	0.0	0.0	0.0	0.0	-0.3	-0.2	-0.1	----	----
AF High point	4915	84.4	800.7	800.7	0.0	770.1	767.2	3.0	1.0393	1.0434
AF Mid point										
AF Low point										
New cyl resp										
Previous Response	NO _x = 801.2 ppb		NO = 799.4 ppb			<i>* = > +/-5% change initiates investigation</i>		*Percent Change	NO _x = -4.0%	
Baseline Corr 1st pt	NO _x = 770.4 ppb		NO = 767.4 ppb			<u>As Found Statistics</u>		*Percent Change	NO = -4.2%	
Baseline Corr 2nd pt	NO _x = NA ppb		NO = NA ppb			As found	NO _x r ² :	Nx SI:	Nx Int:	
Baseline Corr 3rd pt	NO _x = NA ppb		NO = NA ppb			As found	NO r ² :	NO SI:	NO Int:	
						As found	NO ₂ r ² :	NO ₂ SI:	NO ₂ Int:	

As Found GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	Baseline Adjusted NO ₂ Correction factor (Cc/(Ic-AFzero)) <i>Limit = 0.90 - 1.10</i>	Converter Efficiency <i>Limit = 96-104%</i>
As Found GPT zero						
As found high GPT point						
As found mid GPT point						
As found low GPT point						



Wood Buffalo Environmental Association

NO_x \ NO \ NO₂ Calibration Report

Analyzer Information

Analyzer Make: Teledyne API T200
 NOX Range (ppb): 0 - 1000 ppb

Serial Number: 7029

Instrument Settings

	<u>Start</u>	<u>Finish</u>		<u>Start</u>	<u>Finish</u>
NO coeff or slope:	1.084	1.129	NO bkgnd or offset:	0.2	0.2
NOX coeff or slope:	1.081	1.126	NOX bkgnd or offset:	0.4	0.4
NO2 coeff or slope:	1.000	1.000	Reaction cell Press:	4.7	6.2

Calibration Statistics

	<u>Start</u>	<u>Finish</u>
NO _x Cal Slope:	1.003920	1.003150
NO _x Cal Offset:	-2.618641	-1.348011
NO Cal Slope:	1.001705	1.002193
NO Cal Offset:	-2.718129	-2.087986
NO ₂ Cal Slope:	1.003709	1.001288
NO ₂ Cal Offset:	0.925154	0.201489

Dilution Calibration Data

Set Point	Dilution flow rate (scm)	Source gas flow rate (scm)	Calculated NO _x concentration (ppb) (Cc)	Calculated NO concentration (ppb) (Cc)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO _x concentration (ppb) (Ic)	Indicated NO concentration (ppb) (Ic)	Indicated NO ₂ concentration (ppb) (Ic)	NO _x Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	NO Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>
Cal zero	5000	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	----	----
High point	4915	84.4	800.7	800.7	0.0	802.4	801.4	1.0	0.9979	0.9991
Mid point	4957	42.2	400.4	400.4	0.0	400.0	398.1	1.9	1.0009	1.0057
Low point	4978	21.1	200.2	200.2	0.0	198.0	196.6	1.5	1.0111	1.0183
As left zero	5000	0.0	0.0	0.0	0.0	0.1	0.1	0.0	----	----
As left span	4915	84.4	800.7	413.5	387.2	792.0	413.5	378.5	1.0110	1.0000
Average Correction Factor									1.0033	1.0077

GPT Calibration Data

O3 Setpoint (ppb)	Indicated NO Reference concentration (ppb)	Indicated NO Drop concentration (ppb)	Calculated NO ₂ concentration (ppb) (Cc)	Indicated NO ₂ concentration (ppb) (Ic)	NO ₂ Correction factor (Cc/Ic) <i>Limit = 0.95-1.05</i>	Converter Efficiency <i>Limit = 96-104%</i>
Cal zero	----	----	0.0	-0.1	----	----
High GPT point	795.6	414.5	381.1	381.7	0.9984	100.2%
Mid GPT point	795.6	589.0	206.6	207.0	0.9981	100.2%
Low GPT point	795.6	689.1	106.5	107.3	0.9925	100.8%
Average Correction Factor					0.9963	100.4%

Notes:

Sample inlet filter changed after as founds. Adjusted span only.

Calibration Performed By:

Mohammed Kashif



Wood Buffalo Environmental Association

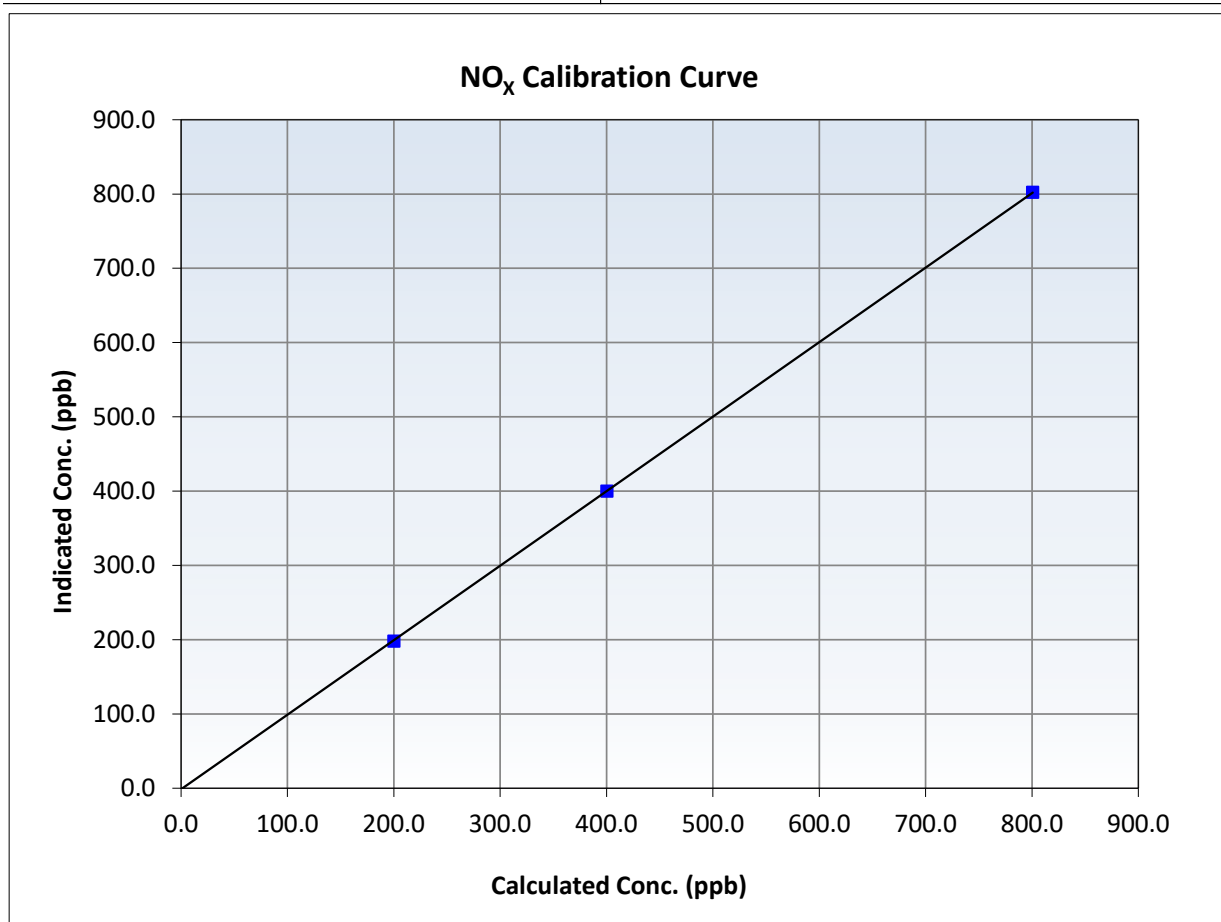
NO_x Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 13, 2026
Station Name:	Blackgold	Station Number:	AMS 511
Start Time (MST):	12:07	End Time (MST):	17:10
Analyzer make:	Teledyne API T200	Analyzer serial #:	7029

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.1	----	Correlation Coefficient	0.999988	<i>≥0.995</i>
800.7	802.4	0.9979	Slope	1.003150	<i>0.90 - 1.10</i>
400.4	400.0	1.0009	Intercept	-1.348011	<i>+/-20</i>
200.2	198.0	1.0111			





Wood Buffalo Environmental Association

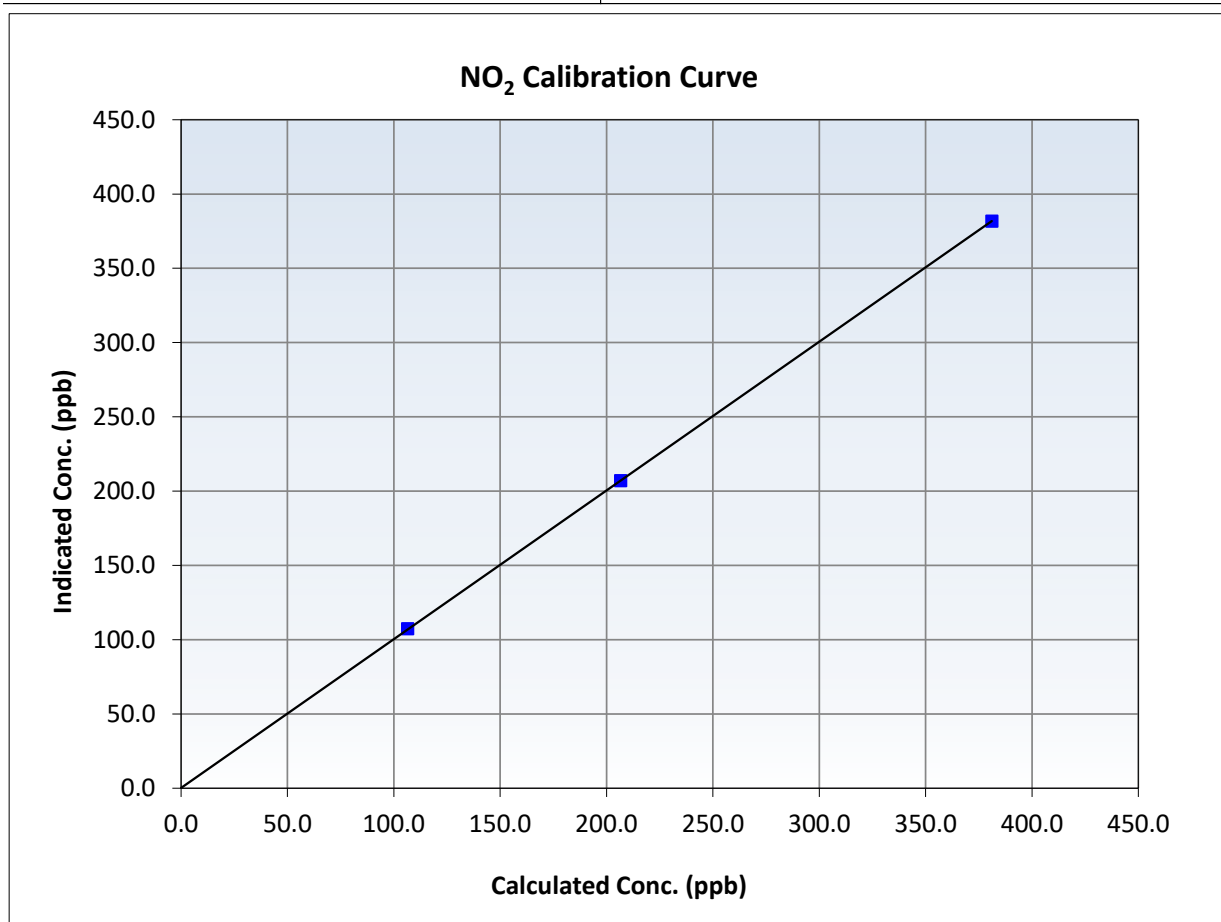
NO₂ Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 13, 2026
Station Name:	Blackgold	Station Number:	AMS 511
Start Time (MST):	12:07	End Time (MST):	17:10
Analyzer make:	Teledyne API T200	Analyzer serial #:	7029

Calibration Data

Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.1	----	Correlation Coefficient	0.999996	≥0.995
381.1	381.7	0.9984	Slope	1.001288	0.90 - 1.10
206.6	207.0	0.9981	Intercept	0.201489	+/-20
106.5	107.3	0.9925			





Wood Buffalo Environmental Association

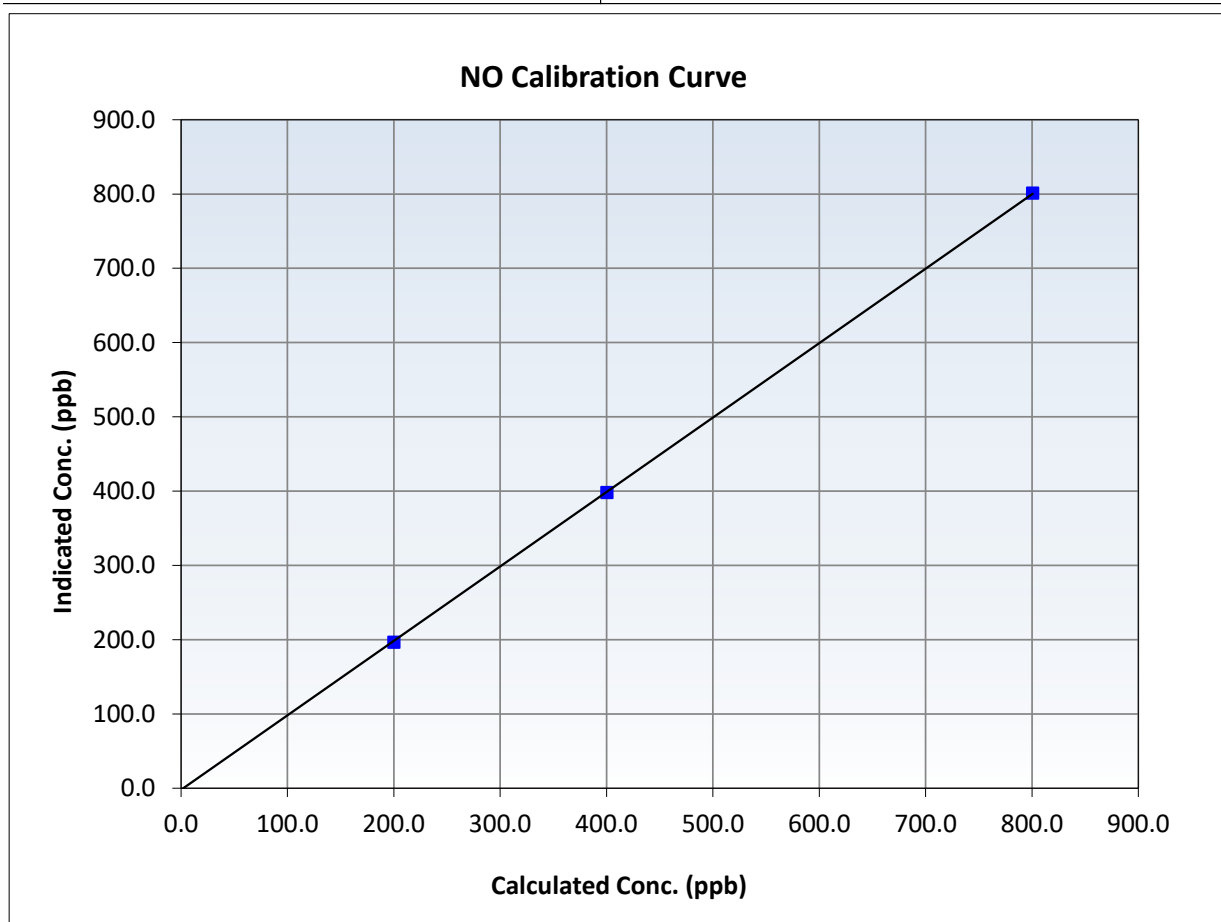
NO Calibration Summary

Station Information

Calibration Date:	February 19, 2026	Previous Calibration:	January 13, 2026
Station Name:	Blackgold	Station Number:	AMS 511
Start Time (MST):	12:07	End Time (MST):	17:10
Analyzer make:	Teledyne API T200	Analyzer serial #:	7029

Calibration Data

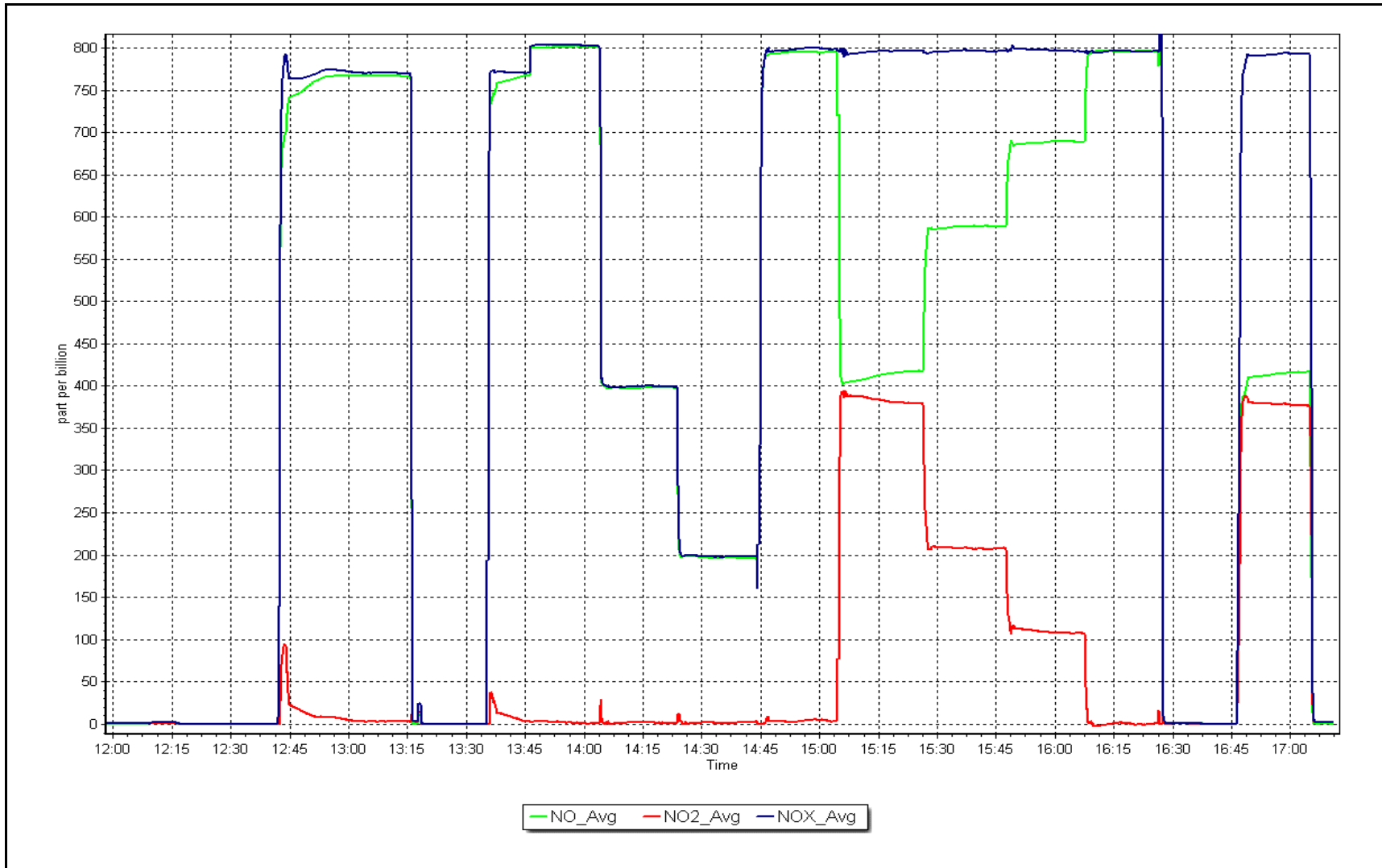
Calculated concentration (ppb) (Cc)	Indicated concentration (ppb) (Ic)	Correction factor (Cc/Ic)	Statistical Evaluation		<i>Limits</i>
0.0	-0.1	----	Correlation Coefficient	0.999972	≥0.995
800.7	801.4	0.9991	Slope	1.002193	0.90 - 1.10
400.4	398.1	1.0057	Intercept	-2.087986	+/-20
200.2	196.6	1.0183			



NO_x Calibration Plot

Date: February 19, 2026

Location: Blackgold





End of Report